

3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year

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Calendar Year 2023		
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Preamble

Srinivas Institute of Technology, renowned for its knowledge and innovation, has consistently upheld a dedication to scholarly excellence. As we embark on the journey of evaluating the scholarly accomplishments of our esteemed faculty, it becomes imperative to delve into essential metrics that showcase their academic influence and research expertise. This section aims to provide a comprehensive overview of the scholarly contributions of our faculty members over the past five years. It focuses on the quantification of academic output, including the number of books and chapters in edited volumes/books published, as well as the number of papers published in national and international conference proceedings by each teacher. These metrics serve as indicators of the institution's commitment to research and knowledge dissemination, highlighting the intellectual engagement of our faculty members in their respective fields.

Srinivas Institute of Technology has been at the forefront of fostering knowledge and innovation through a series of remarkable conferences organized across various departments. These conferences, namely ICRICS (International Conference on Recent Innovations in Computer Science), RTIMES (International Conference on Recent Trends in Mechanical Engineering Sciences), ICTIR (International Conference on Technology for Industry 4.0 Revolution), and the International Conference on Sustainable Innovative Strategies for Business Development in the Current Scenario, have been instrumental in enriching the academic landscape for both our esteemed faculty and eager students. These conferences have served as vibrant platforms for the exchange of ideas, the exploration of cutting-edge trends, and the dissemination of knowledge.

Faculty members have had the opportunity to engage with peers and experts from around the world, gaining valuable insights to enhance their teaching and research endeavors. Simultaneously, our students have been exposed to the latest advancements in their respective fields, fostering a culture of innovation and academic growth. This initiative mirrors our steadfast dedication to educational excellence and the advancement of knowledge, underlining our vision to maintain a prominent position in academic accomplishments and research contributions.

Summary Sheet

Summary of Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year

Sl. No.	Name	Title of the book/chapters published	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / International	Calendar Year of publication	ISBN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
1	Ramakrishna N. Hegde	Fluid mechanics and fluid power	Combined effect of Helical screw tape and water based GO/Al ₂ O ₃ nanofluids on heat transfer enhancement in a double pipe heat exchanger	-	-	International	2023	ISSN: 2195-4356	Srinivas Institute of Technology, Valachil, Mangaluru	Springer
2	Ramakrishna N. Hegde	Energy Systems Design for Low-Power Computing	Chapter -6 Electronic Cooling	-	-	International	2023	978-16-684497-4-5	Srinivas Institute of Technology, Valachil, Mangaluru	IGI Global

3	Ramakrishna N. Hegde	-	Performance Investigation of a Novel Three - Bladed Finned Propeller for a Horizontal Axis Small Wind Turbine	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
4	Ramakrishna N. Hegde	-	Design and Fabrication of a Quadcopter with an Inbuilt Coded Control Mechanism for Detection of Leaf Spot Disease and Simultaneous Pesticide Spray in Arecanut Plants	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
5	Rajesh P	-	Use of Precipitation Hardening For Natural Granite Powder	Proceedings of 2nd International conference on "Recent	2nd International conference on "Recent	International	2023	978-81-966014-4-7	Srinivas Institute of Technology,	Srinivas Institute of Tech

			Renifored With A17075 Alloy	ce on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	Trends in Mechanical Engineering Sciences RTIMES 2023				Valachi l, Mangaluru	nology Man galu ru
6	Rajesh P	-	Unmanned Arial Vehicle For Fire And Safety	Proceedi ngs of 2nd Internati onal conferen ce on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd Internati onal conferen ce on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	Inter nation al	2023	978-81-966014-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangaluru	Srini vas Insti tute of Tech nolo gy Man galu ru
7	Lokesh K S	-	Forest Fire Detection And Extinguishe r Drone	Proceedi ngs of 2nd Internati onal conferen ce on "Recent Trends in Mechanical Engineering Sciences	2nd Internati onal conferen ce on "Recent Trends in Mechanical Engineering Sciences	Inter nation al	2023	978-81-966014-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangaluru	Srini vas Insti tute of Tech nolo gy Man galu ru

				RTIMES 2023	RTIMES 2023					
8	Praveen Shenoy K	-	Weather Forecasting Using Arduino- Based Cube Satellites	Proceedi ngs of 2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
9	Srinidhi Kukkila	-	Design and Fabrication of Propellant for Hybrid Rocket Engine using 3D Printing	Proceedi ngs of 2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
10	Caroline D'Souza	Chenn u Mang alore City	-	-	-		2023	978- 81- 95971 1-1-4	Sriniva s Institut e of Techno	Art Kan ara

		Profile							logy, Valachi l, Mangaluru	Trust
11	Sangeetha S.	-	Impact of multidisciplinary knowledge in improving the quality of Architecture and Planning	-	National conference Collaborating across Disciplines through Interdisciplinary Research	national	2023	978-81-963171-0-2	Srinivas Institute of Technology, Valachi l, Mangaluru	St Aloysius College (Autonomous), Mangaluru.
12	Jagadeesh B	-	Design and analysis of triple co-axial nozzle combustor	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachi l, Mangaluru	Srinivas Institute of Technology Mangaluru
13	Jagadeesh B	-	Thermoelectric Generator in Aircraft Engine	Proceedings of 2nd International conference	2nd International conference on "Recent	International	2023	978-81-966014-4-7	Srinivas Institute of Technology,	Srinivas Institute of Tech

				ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Trends in Mechani cal Engineer ing Sciences RTIMES 2023				Valachi l, Mangal uru	nolo gy Man galu ru
14	Prakash S T	-	Chassis design for electric vehicle.	Proceedi ngs of 2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
15	Prakash S T	-	Fabrication of Battery Managemen t System for Electric Vehicle	Proceedi ngs of 2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences	2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru

				RTIMES 2023	RTIMES 2023					
16	Girish A R	-	Gain Scheduling for Hybrid Aircraft to Move from Vertical to Horizontal Position	Proceedi ngs of 2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
17	Girish A R	-	Fabrication and Developme nt of BLDC Motor and Controller for Designed Electric Vehicle	Proceedi ngs of 2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	2nd Internati onal conferen ce on "Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
18	Girish A R	-	Design and Fabrication of Suspension and Braking	Proceedi ngs of 2nd Internati onal	2nd Internati onal conferen ce on	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno	Srini vas Insti tute of

			system of EV	conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	"Recent Trends in Mechanical Engineering Sciences RTIMES 2023				logy, Valachil, Mangaluru	Tech nology Man galu ru
19	Varun N	-	Analysis and Optimization of Electrical Vehicle	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	Inter national	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Tech nology Man galu ru
20	Varun N	-	Design and fabrication of Steering System For EV.	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering	2nd International conference on "Recent Trends in Mechanical Engineering Sciences	Inter national	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Tech nology Man galu ru

				Sciences RTIMES 2023	RTIMES 2023					
21	Varun N	-	Survey Tactic to Learning the Impact of Managemen t Factor in Employing	Internati onal Conferen ce on Sustaina ble Innovati ve Strategie s For Business Develop ment in the Current Scenario	Internati onal Conferen ce on Sustaina ble Innovati ve Strategie s For Business Develop ment in the Current Scenario	Inter natio nal	2023	978- 93- 92537 -51-6	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
22	Gangad hara Rao	-	Radio Control, Sonar Technology , Ultrasonic Sensor, Infrared Sensor	Proceedi ngs of 2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
23	Nagaraj a Hebbar N	-	A Web Based Application For	Proceedi ngs of Internati onal	Internati onal conferen ce	Inter natio nal	2023	978- 81-	Sriniva s Institut e of	BO NFR ING

			Attainment Of Programme Outcome Through Course Outcome For Outcome Based Education	conference Recent Innovations in Computer science-2023	Recent Innovations in Computer science(ICRICS-2023)			966014-6-1	Technology, Valachil, Mangaluru	
24	Sneha Bose	-	Computer Networking using Sustainable Energy	International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International	2023	78-93-92537-51-6	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
25	Madhusudhan S	-	Water Quality Classification using Gradient Boosting Classifier	Proceedings of International conference Recent Innovations in Computer	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

				science-2023						
26	Madhusudhan S	-	Crime predictive model hotspot mapping using Machine Learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
27	Daya Naik	-	Virtual Teaching Board Using Computer Vision	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
28	Daya Naik	-	Skin lesion classification	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

				science-2023	CRICS-2023)					
29	Parvathraj K M M	-	Application Of AI-Predicated Algorithm for Feature Extraction And Evaluation In Chronic Kidney Disease Datasets	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
30	Parvathraj KMM	-	An Image Encryption Model Using Hyper Chaotic Map Dependent Grey-Intelligent Optimization	Proceedings of 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN)	2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN)	International	2023	979-8-3503-2284-2	Srinivas Institute of Technology, Valachil, Mangaluru	IEE E
31	Anoop B K	-	Hybrid Optimization-Based Routing Method for Improving	Proceedings of International conference Recent Innovations in	International conference Recent Innovations in Compute	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil,	BO NFR ING

			Security In MANET	ons in Compute r science- 2023	r science(I CRICS- 2023)				Mangal uru	
32	Anoop Balakris hnan Kadan,	-	An Image Encryption Model Using Hyper Chaotic Map Dependent Grey- Intelligent Optimizatio n	2023 3rd Internati onal Conferen ce on Pervasiv e Computi ng and Social Networki ng (ICPCS N)	2023 3rd Internati onal Conferen ce on Pervasiv e Computi ng and Social Networki ng (ICPCS N)	Inter natio nal	2023	979- 8- 3503- 2284- 2	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	IEE E
33	Sumana V S	-	Developme nt Of Poly (3,4- Ethylenedio xythiophene):Polystyren e Sulfonate (Pedot:Pss) And Guar Gum (Gg) Electrolyte For Supercapaci tor	Procedi ngs of Internati onal Conferen ce On Recent Research in Applied Sciences (ICRRA S-2023)	Internati onal Conferen ce On Recent Research in Applied Sciences (ICRRA S-2023)	Inter natio nal	2023	978- 93- 94676 -61-9	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Publ icati on, Srini vas Univ ersit y, Man galo re
34	N. Gopalak rishna Bhat	-	Indirect Complexom etric Determinati on of Mercury(Ii)	Procedi ngs of Internati onal Conferen ce On	Internati onal Conferen ce On Recent Research	Inter natio nal	2023	978- 93- 94676 -61-9	Sriniva s Institut e of Techno logy,	Srini vas Publ icati on, Srini

			Using 2,2' - Bipyridyl As Selective Masking Agent	Recent Research in Applied Sciences (ICRRA S-2023)	in Applied Sciences (ICRRA S-2023)				Valachi l, Mangaluru	vas Univ ersit y, Man galo re
35	RaviShankar	-	College Automation Applications	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
36	Reshma. B	-	Grading and Sorting of Fruits and Vegetables using Computer Vision and Image Processing	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
37	Shivaprasad B J	-	Financial Empowerment and planning helper	Proceedings of International conference	International conference Recent Innovations	International	2023	978-81-966014-6-1	Srinivas Institute of Technology,	BO NFR ING

				Recent Innovations in Computer science-2023	ons in Computer science(ICRICS-2023)				Valachi l, Mangaluru	
38	Padmanayana	-	Object detection in video streaming using deep learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
39	Shreeja	-	Rice Plant Leaf Disease Detection with Smart Phone Application	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
40	Deepthi P Dsouza	-	Early Detection of Alzheimer's Disease	Proceedings of International conference	International conference Recent Innovations	International	2023	978-81-966014-6-1	Srinivas Institute of Technology,	BO NFR ING

				Recent Innovations in Computer science-2023	ons in Computer science(I CRICS-2023)				Valachi l, Mangaluru	
41	Dheeraj Hebri	-	EMPLOY ME-Placement Prediction using Machine learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
42	Aravind Naik	-	Grow and Know	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
43	Harishma	-	AR powered campus navigation application	Proceedings of International conference	International conference Recent Innovati	International	2023	978-81-966014-6-1	Srinivas Institute of Technology,	BO NFR ING

				Recent Innovations in Computer science-2023	ons in Computer science(I CRICS-2023)				Valachi l, Mangaluru	
44	Anish NK	-	Per Pixel Image Segmentation to Classify Salt Segment	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
45	Anusha	-	Detection of Parkinson's disease using drawing tasks	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
46	Mamatha. S	-	Automated metering infrastructure (AMI) using IoT	Proceedings of International conference	International conference Recent Innovati	International	2023	978-81-966014-6-1	Srinivas Institute of Technology,	BO NFR ING

				Recent Innovations in Computer science-2023	ons in Computer science(I CRICS-2023)				Valachi l, Mangaluru	
47	Mamatha. S	-	Text-To-Speech and Speech-To-Text Conversion	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
48	Reshma. B	-	Gender Recognition from Speech	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
49	Deepti Dsouza	-	Steganography Using Image	Proceedings of International conference	International conference Recent Innovations	International	2023	978-81-966014-6-1	Srinivas Institute of Technology,	BO NFR ING

				Recent Innovations in Computer science-2023	ons in Computer science(I CRICS-2023)				Valachi l, Mangaluru	
50	RaviShankar	-	MEDLEARN 360 ⁰	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFRING
51	RaviShankar	-	Color And Object Detection of Image	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFRING
52	Rajeshwari	-	Steganography Using Image	Proceedings of International conference	International conference Recent Innovations	International	2023	978-81-966014-6-1	Srinivas Institute of Technology,	BO NFRING

				Recent Innovations in Computer science-2023	ons in Computer science(ICRICS-2023)				Valachi l, Mangaluru	
53	Sudheesh K P	-	Credit Card Fraud Detection Using Machine Learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
54	Deeksha JS	-	Color And Object Detection of Image	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
55	Shreeja	-	Cartoonify An Image	Proceedings of International conference	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology,	BO NFR ING

				Recent Innovations in Computer science-2023	ons in Computer science(I CRICS-2023)				Valachi l, Mangaluru	
62	Shiva Prasad	-	Receipe generator using food images	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	Inter national	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
63	Anish NK	-	Music App using facial recognition	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	Inter national	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
64	P Rakesh Mallya	-	Mini Portable Refrigerator	Proceedings of International Conference on	International Conference on Technology for	Inter national	2023	ISSN: 2320-2882	Srinivas Institute of Technology,	Srinivas Institute of Tech

				Technology for Industry 4.0 Revolution (ICTIR-2023)	Industry 4.0 Revolution (ICTIR-2023)				Valachi l, Mangaluru	nology Mangaluru
65	Sahana Girish Kundar	-	E Commerce Website Using Block Chain Technology	Proceedings of International conference Recent Innovations in Computer science-2024	International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International	2023	ISSN: 2320-2882	Srinivas Institute of Technology, Valachi l, Mangaluru	Srinivas Institute of Technology Mangaluru
66	Flavita Pinto	-	Remote Control System That Enables Wireless Photography And Video Recording Using An Android Phone And A Wi-Fi Network	Proceedings of International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International	2023	ISSN: 2320-2882	Srinivas Institute of Technology, Valachi l, Mangaluru	Srinivas Institute of Technology Mangaluru

				Recent Innovations in Computer science-2023	ons in Computer science(I CRICS-2023)				Valachi l, Mangaluru	
56	Aravind Naik	-	Web Application Firewall (WAP)	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
57	Daya Naik	-	Virtual Teaching Board Using Computer Vision	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
58	Padmanayana	-	Detecting Phishing Website	Proceedings of International conference	International conference Recent Innovations	International	2023	978-81-966014-6-1	Srinivas Institute of Technology,	BO NFR ING

				Recent Innovations in Computer science-2023	ons in Computer science(I CRICS-2023)				Valachi l, Mangaluru	
59	Rajesh D.S	-	Live Human Detection	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
60	Rajesh D.S	-	Crowd Monitoring	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
61	Shiva Prasad	-	Technology To Help Visually Impaired	Proceedings of International conference	International conference Recent Innovati	International	2023	978-81-966014-6-1	Srinivas Institute of Technology,	BO NFR ING

67	Nagalakshmi.B. Naik	-	Ghee Making Machine	Proceedings of International conference Recent Innovations in Computer science-2023	International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International	2023	ISSN: 2320-2882	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
68	Clitus Neil DSouza	-	Chatbot For College Campus	Proceedings of International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International	2023	ISSN: 2320-2882	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
69	Deeksha	-	Attendance Using Gps And Selfie	Proceedings of International Conference on Technology for Industry 4.0 Revolution	International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International	2023	ISSN: 2320-2882	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

				(ICTIR-2023)						
70	Marina Chandy	-	Gps Based Tracking Of Location And Providing Medical Assistance Using UAV	Proceedings of International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International	2023	ISSN: 2320-2882	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
71	Gourish S Hegde	-	IOT Based Fruits And Vegetables Storage Monitoring And Machine Learning Based Shelf Life And Disease Detection System	Proceedings of International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International Conference on Technology for Industry 4.0 Revolution (ICTIR-2023)	International	2023	ISSN: 2320-2882	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
72	Sathish Kumar K	-	E Commerce Website Using Block Chain Technology	Proceedings of International Conference on Technology for Industry	International Conference on Technology for Industry 4.0 Revolution	International	2023	ISSN: 2320-2882	Srinivas Institute of Technology, Valachil,	Srinivas Institute of Technology Man

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73	Sathish Kumar K	-	Remote Control System That Enables Wireless Photograph y And Video Recording Using An Android Phone And A Wi-Fi Network	Proceedi ngs of Internati onal Conferen ce on Technolo gy for Industry 4.0 Revoluti on (ICTIR- 2023)	Internati onal Conferen ce on Technolo gy for Industry 4.0 Revoluti on (ICTIR- 2023)	Inter natio nal	2023	ISSN: 2320- 2882	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
74	Lokesh B	-	TinyML implementat ion to recognize gestures using TensorFlow Lite for Microcontro llers	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
75	Sudarsh an K	-	Blockchain- Enabled Sustainable Waste Managemen	Proceedi ngs of Internati onal Conferen ce on	Internati onal Conferen ce on Sustaina ble	Inter natio nal	2023	978- 93- 92537 -51-6	Sriniva s Institut e of Techno logy,	BO NFR ING

			t: A Path to a Greener Future	Sustainable Innovative Strategies For Business Development in the Current Scenario	Innovative Strategies for Business Development in The Current Scenario				Valachi l, Mangaluru	
76	Sudarshan K	-	Sustainable Green IT Strategies for Business Development	Proceedings of International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International	2023	978-93-92537-51-6	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
77	Sowmya	-	Blockchain-Enabled Sustainable Waste Management: A Path to a Greener Future	Proceedings of International Conference on Sustainable Innovative	International Conference on Sustainable Innovative Strategies For	International	2023	978-93-92537-51-6	Srinivas Institute of Technology, Valachi l,	BO NFR ING

				Strategie s For Business Develop ment in the Current Scenario	Business Develop ment in the Current Scenario				Mangal uru	
78	Sowmya	-	Sustainable Green IT Strategies for Business Developme nt	Proceedi ngs of Internati onal Conferen ce on Sustaina ble Innovati ve Strategie s For Business Develop ment in the Current Scenario	Internati onal Conferen ce on Sustaina ble Innovati ve Strategie s For Business Develop ment in the Current Scenario	Inter natio nal	2023	978- 93- 92537 -51-6	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
79	Sudarsh an K	-	Traffic Intellectual System	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING

80	Sudarshan K	-	Deep Machine Learning Model for Estimating, Predicting and Forecasting of Tropical Cyclone intensity using satellite Image	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
81	Sudarshan K	-	Anke Gyanni-"Creation and Recognition of Handwritten Tulu Numerals	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
82	Athmaranjan K	-	Deep-Fake Detection Using CNN	Proceedings of International conference Recent Innovations in Computer	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

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83	Athmaranjan K	-	Fake Currency Detection using Machine Learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRIS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
84	Sowmya	-	INTONATION- A Speech Emotion Analyzer	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRIS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
85	Sowmya	-	Image Caption Generator Using Deep Learning	Proceedings of International conference Recent Innovations in Computer	International conference Recent Innovations in Computer science(I	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

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86	Shreeks hitha	-	Cartoonify An Image	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
87	Shilpaka la K	-	A Review On Some Types Of Domination In Graph Theory	Proceedi ngs of Internati onal Conferen ce On Recent Research in Applied Sciences (ICRRA S-2023)	Internati onal Conferen ce On Recent Research in Applied Sciences (ICRRA S-2023)	Inter natio nal	2023	978- 93- 94676 -61-9	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Publ icati on, Srini vas Univ ersit y, Man galo re
88	Ananth Kulkarn i	-	On the K- Metro Domination Number of Open Triangular Ladder Graph	Proceedi ngs of Internati onal Conferen ce On Recent Research in Applied Sciences	Internati onal Conferen ce On Recent Research in Applied Sciences	Inter natio nal	2023	978- 93- 94676 -61-9	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Publ icati on, Srini vas Univ ersit y, Man

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89	Vathsalya	-	A Review on Some Types of Domination in Graph Theory	Proceedings of International Conference On Recent Research in Applied Sciences (ICRRA S-2023)	International Conference On Recent Research in Applied Sciences (ICRRA S-2023)	International	2023	978-93-94676-61-9	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Publication, Srinivas University, Mangalore
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91	Ajoy S Joseph	-	Social Media Marketing for sustainability: Literature Review"	Proceedings of International Conference on Sustainable Innovative Strategies	International Conference on Sustainable Innovative Strategies For Business	International	2023	978-93-92537-51-6	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

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95	Rashmi	-	Social Media Marketing for sustainability: Literature Review	Proceedings of International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	Inter national	2023	978- 93- 92537 -51-6	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

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97	Ashwini	-	A study on Factors that Affect Financial Sustainability of Industries- Literature Review	Proceedings of International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International	2023	978-93-92537-51-6	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
98	Ajoy S Joesph	-	A Case Study On Wellbeing And Mental	Proceedings of International	International Conference on	International	2023	978-81-	Srinivas Institute of	Srinivas Institute

			Health Among Medical And Paramedical Staffs At Belthangad y, Karnataka	Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	Trends in Management and Technology-2023: Book of Abstracts			96601 4-3-0	Technology, Valachil, Mangaluru	of Technology Mangaluru
99	Ajoy S Joesph	-	Social Media Influencers Influencing The Travel Destination - New Marketing Trend	Proceedings of International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International Conference on Trends in Management and Technology-2023: Book of Abstracts	International	2023	978-81-96601 4-3-0	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
100	Ajoy S Joesph	-	Investigating The Impact Of Digital Transformation On Banking Services	Proceedings of International Conference on Sustainable	International Conference on Trends in Management and Technology	International	2023	978-81-96601 4-3-0	Srinivas Institute of Technology, Valachil,	Srinivas Institute of Technology

			And Customer Experience	Innovative Strategies For Business Development in the Current Scenario	gy-2023: Book of Abstracts				Mangaluru	Mangaluru
101	Ajoy S Joesph	-	A Study On Gender Perspective Of Level Of Difficulty In Accessing And Knowing The Process Of Microfinance In Dakshina Kannada District	Proceedings of Education and Society	Education and Society	International	2023	ISSN: 2278-6864	Srinivas Institute of Technology, Valachil, Mangaluru	Indian Institute of Education
102	Veena S Rai	-	Trending Dynamics Of Decoding The Digitalization For Management	Proceedings of International Conference on Trends in Management and Technology-2023	International Conference on Trends in Management and Technology-2023: Book of Abstracts	International	2023	978-81-966014-3-0	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

103	Veena S Rai	-	Exploring Metaverses Oppurtiunities And Threats For Business	Proceedings of International Conference on Trends in Management and Technology-2023	International Conference on Trends in Management and Technology-2023	International	2023	978-81-966014-3-0	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
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106	Ashwini	-	Cyber Security A Detail Insight Into Indian	Proceedings of International Conference on	International Conference on Trends in Manage	International	2023	978-81-966014-3-0	Srinivas Institute of Technology,	Srinivas Institute of Tech

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107	Mallika	-	Investigating The Impact Of Digital Transformation On Banking Services And Customer Experience	Proceedings of International Conference on Trends in Management and Technology-2023	International Conference on Trends in Management and Technology-2023	International	2023	978-81-966014-3-0	Srinivas Institute of Technology, Valachi l, Mangaluru	Srinivas Institute of Technology Mangaluru
108	Mallika	-	Empowering The Unbanked: A Paradigm Shift In Digital Transformation Through Mobile Payment In Financial Inclusion	Proceedings of International Conference on Trends in Management and Technology-2023	International Conference on Trends in Management and Technology-2023	International	2023	978-81-966014-3-0	Srinivas Institute of Technology, Valachi l, Mangaluru	Srinivas Institute of Technology Mangaluru
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110	S. Sadananda Poojary	-	The Role Of Branding In Business Success	Proceedi ngs of Internati onal Conferen ce on Trends in Manage ment and Technolo gy-2023	Internati onal Conferen ce on Trends in Manage ment and Technolo gy-2023	Inter natio nal	2023	978- 81- 96601 4-3-0	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
111	Dhanya K	-	Exploring The Role Of Gamificatio n On Students Engagement Leading To Outcome Based Learning	Proceedi ngs of Internati onal Conferen ce on Trends in Manage ment and Technolo gy-2023	Internati onal Conferen ce on Trends in Manage ment and Technolo gy-2023	Inter natio nal	2023	978- 81- 96601 4-3-0	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
112	Dhanya K	-	Role Of "Digital Transformat ion And Change Managemen t"	Proceedi ngs of Internati onal Conferen ce on Trends in Manage ment and Technolo gy-2023	Internati onal Conferen ce on Trends in Manage ment and Technolo gy-2023	Inter natio nal	2023	978- 81- 96601 4-3-0	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
113	Dhanya K	-	Navigating Uncharted Waters:	Proceedi ngs of Internati	Internati onal Conferen	Inter natio nal	2023	978- 81-	Sriniva s Institut	Srini vas Insti

			Challenges Faced By Entrepreneurs In Growing And Expanding Their Businesses Into Foreign Territories	onal Conference on Trends in Management and Technology-2023	ce on Trends in Management and Technology-2023			966014-3-0	e of Technology, Valachil, Mangaluru	tute of Technology Mangaluru
114	Dhanya K	-	Cyber Security A Detail Insight Into Indian Small Business	Proceedings of International Conference on Trends in Management and Technology-2023	International Conference on Trends in Management and Technology-2023	International	2023	978-81-966014-3-0	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
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116	Ashwini	-	Cyber Security A Detail Insight Into Indian	Proceedings of International Conference on	International Conference on Trends in Manage	International	2023	978-81-966014-3-0	Srinivas Institute of Technology,	Srinivas Institute of Tech

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117	Shashidhar Kini K	-	Advertisement Demand Forecasting	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
118	Shashidhar Kini K	-	Tomato Leaf Disease Detection Using Deep Learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING
119	Shashidhar Kini K	-	Plant Species Detection	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi l, Mangaluru	BO NFR ING

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120	Shashid har Kini K	-	Prediction Air Pollution Level in a Specific City	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
121	Shashid har Kini K	-	Food Review Bazaar	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
122	Shashid har Kini K	-	Speech Motion Recognition Using Machine Learning	Procedi ngs of Internati onal conferen ce Recent Innovati	Internati onal conferen ce Recent Innovati ons in Compute	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l,	BO NFR ING

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123	Shashid har Kini K	-	Recipe Generator using Machine Learning	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
124	Shashid har Kini K	-	Customer Segmentatio n using Machine Learning	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
125	Shashid har Kini K	-	Brain Tumor Detection	Procedi ngs of Internati onal conferen ce Recent Innovati	Internati onal conferen ce Recent Innovati ons in Compute	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l,	BO NFR ING

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126	Shashid har Kini K	-	Climate Analysis	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
127	Shashid har Kini K	-	Yoga Posture Classificatio n	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
128	Shashid har Kini K	-	Prediction and Classificatio n of Cardiac Arrhythmia type using	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING

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129	Shashidhar Kini K	-	Smart Service	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
130	Shashidhar Kini K	-	Classification of Customers Based on the Type of Shopping in Mall's.	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
131	Shashidhar Kini K	-	IRIS Recognition System	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

134	Shashidhar K	-	VisionSafe	Proceedings of International Conference on Recent Innovations in Computing	International Conference on Recent Innovations in Computing	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi, Mangaluru	BO NFR ING
133	Dr. Shashidhar K	-	Sky-BOX	Proceedings of International Conference on Recent Innovations in Computing	International Conference on Recent Innovations in Computing (CRICS-2023)	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi, Mangaluru	BO NFR ING
132	Shashidhar K	-	Enroll-Net	Proceedings of International Conference on Recent Innovations in Computing	International Conference on Recent Innovations in Computing (CRICS-2023)	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachi, Mangaluru	BO NFR ING
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138	Shashid har Kini K	-	Reconstruct ing the Images	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
139	Shashid har Kini K	-	Image to Audio Conversion using ML	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
140	Shashid har Kini K	-	Prediction of Customer Life Time Value	Proceedi ngs of Internati onal conferen ce Recent Innovati	Internati onal conferen ce Recent Innovati ons in Compute	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l,	BO NFR ING

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141	Shashid har Kini K	-	Handwritten Digit Recognition using Machine Learning	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
142	Shashid har Kini K	-	Image Caption Generation using Deep learning	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
143	Shashid har Kini K	-	Multi Agent System to Prevent Malnutritio n	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING

				ons in Compute r science- 2023	r science(I CRICS- 2023)				Mangal uru	
144	Shashid har Kini K	-	Online News	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
145	Shashid har Kini K	-	Fusion Fare: A Multi Vendor E- Commerce Site	Proceedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
146	Shashid har Kini K	-	Face Anonymizat ion using ML	Proceedi ngs of Internati onal conferen ce Recent Innovati	Internati onal conferen ce Recent Innovati ons in Compute	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l,	BO NFR ING

				ons in Compute r science- 2023	r science(I CRICS- 2023)				Mangal uru	
147	Rajesh Naik	-	Social Media Ads Classificatio n	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
148	Rajesh Naik	-	SMS Spam Detection	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
149	Rajesh Naik	-	Student Performanc e Tracker	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING

				ons in Compute r science- 2023	r science(I CRICS- 2023)				Mangal uru	
150	Rajesh Naik	-	Hotel Reviews Classificatio n	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
151	Rajesh Naik	-	Medical Image Analysis	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
152	Rajesh Naik	-	Diet Planning System	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING

				ons in Compute r science- 2023	r science(I CRICS- 2023)				Mangal uru	
153	Rajesh Naik	-	Text Summarizat ion Using Machine Learning	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
154	Rajesh Naik	-	Political Sentiment Analysis	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
155	Rajesh Naik	-	Amazon Alexa Review Sentiment Analysis Using	Procedi ngs of Internati onal conferen ce Recent Innovati	Internati onal conferen ce Recent Innovati ons in Compute	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l,	BO NFR ING

			Machine Learning	ons in Computer science-2023	r science(ICRICS-2023)				Mangaluru	
156	Rajesh Naik	-	Hate Speech Recognition Using Natural Language	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
157	Rajesh Naik	-	Indian Food Classification Using Machine Learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
158	Rajesh Naik	-	Breast Cancer Using Deep Learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

				ons in Compute r science- 2023	r science(I CRICS- 2023)				Mangal uru	
159	Rajesh Naik	-	Stock Price Prediction	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
160	Rajesh Naik	-	Depression Classificatio n Using User Data In Machine Learning	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
161	Rajesh Naik	-	Waste Detection Using Deep Learning	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING

				ons in Compute r science- 2023	r science(I CRICS- 2023)				Mangal uru	
162	Rajesh Naik	-	E-Elect	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
163	Rajesh Naik	-	Fake News Classificatio n Using Machine Learning	Procedi ngs of Internati onal conferen ce Recent Innovati ons in Compute r science- 2023	Internati onal conferen ce Recent Innovati ons in Compute r science(I CRICS- 2023)	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	BO NFR ING
164	Rajesh Naik	-	Journal Managemen t System	Procedi ngs of Internati onal conferen ce Recent Innovati ons in	Internati onal conferen ce Recent Innovati ons in Compute r	Inter natio nal	2023	978- 81- 96601 4-6-1	Sriniva s Institut e of Techno logy, Valachi l,	BO NFR ING

				Computer science-2023	science(I CRICS-2023)				Mangaluru	
165	Rajesh Naik	-	Play Sphere	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
166	Rajesh Naik	-	online School Management	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
167	Rajesh Naik	-	Food Waste Reduction	Proceedings of International conference Recent Innovations in Computer	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

				science-2023						
168	Rajesh Naik	-	Soil Analysis And Crop Recommendation	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
169	Rajesh Naik	-	Cyber Bullying Detection On Social Media Using Machine Learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
170	Rajesh Naik	-	Health Care Management	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

				science-2023						
171	Rajesh Naik	-	Personality Prediction Based On Handwriting	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
172	Rajesh Naik	-	Traffic Congestion Detection	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
173	Rajesh Naik	-	Hand Gesture Controlled Virtual Mouse	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(ICRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

				science-2023						
174	Rajesh Naik	-	Recommendation Of Mobile Phones Based On Users Budget Using Machine Learning	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
175	Rajesh Naik	-	Predictive Modeling	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING
176	Rajesh Naik	-	Skin Disease Identification	Proceedings of International conference Recent Innovations in Computer science-2023	International conference Recent Innovations in Computer science(I CRICS-2023)	International	2023	978-81-966014-6-1	Srinivas Institute of Technology, Valachil, Mangaluru	BO NFR ING

				science-2023						
177	Shriniva sa Mayya D	-	Impact of fibre orientation on mechanical properties of GFRP composites	Elsevier's Materials Today: Proceedi ngs	Smart and sustainab le develop ments in materials -2023	Inter natio nal	2023	ISSN: 2214- 7853	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Else vier's Mat erial s Tod ay: Proc eedi ngs
178	Shriniva sa Mayya	-	Analysis of design parameters of fuel injector used in liquid propellant rocket engine	Elsevier's Materials Today: Proceedi ngs	Smart and sustainab le develop ments in materials -2023	Inter natio nal	2023	ISSN: 2214- 7853	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Else vier's Mat erial s Tod ay: Proc eedi ngs
179	D Shriniva sa Mayya	-	Social Media Marketing for sustainabil ity: Literature Review"	Proceedi ngs of Internati onal Conferen ce on Sustaina ble Innovati ve Strategie s For Business Develop ment in the	Internati onal Conferen ce on Sustaina ble Innovati ve Strategie s For Business Develop ment in the Current Scenario	Inter natio nal	2023	978- 93- 92537 -51-6	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru

				Current Scenario						
180	D. Shrinivasa Mayya	-	Social Media Influencers Influencing The Travel Destination - New Marketing Trend	International Conference on Trends in Management and Technology-2023	International Conference on Trends in Management and Technology-2023: Book of Abstracts	International	2023	978-81-966014-3-0	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
181	Shrinivasa Mayya D.	-	A Study On Gender Perspective Of Level Of Difficulty In Accessing And Knowing The Process Of Microfinance In Dakshina Kannada District	Education and Society	Education and Society	International	2023	ISSN: 2278-6864	Srinivas Institute of Technology, Valachil, Mangaluru	Indian Institute of Education
182	Shrinivasa Mayya D.	-	The factor that influences on timely completion of work in micro and small-scale industries and the current	Proceedings of 2nd International conference on "Recent Trends in Mechanical	2nd International conference on "Recent Trends in Mechanical Engineering	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

			manufacturing culture	Engineering Sciences RTIMES 2023	Sciences RTIMES 2023					
183	Shankar K. S	-	Performance analysis of diesel engine fueled with bio-diesel using machine learning approach	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
184	Shankar K. S	-	RFID Based Inventory Monitoring for Small Scale Spice Industry	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

185	Shankar K. S	-	Automatic Brake Failure Indicator with Automatic braking by electromagnet coil type braking	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
186	Lokesh V	-	Fabrication of portable fresh water generator for Fishing vessels	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
187	Lokesh K S	-	Impact of fibre orientation on mechanical properties of GFRP composites	Elsevier's Materials Today: Proceedings	Smart and sustainable developments in materials -2023	International	2023	ISSN: 2214-7853	Srinivas Institute of Technology, Valachil, Mangaluru	Elsevier's Materials Today: Proceedings

188	Lokesh K S	-	Analysis of design parameters of fuel injector used in liquid propellant rocket engine	Elsevier's Materials Today: Proceedings	Smart and sustainable developments in materials -2023	International	2023	ISSN: 2214-7853	Srinivas Institute of Technology, Valachil, Mangaluru	Elsevier's Materials Today: Proceedings
189	Lokesh V	-	Automated Truck Loading and Unloading System in Harbour	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
190	Sudheendra H N	-	Design and Fabrication Of Stair Climbing Mechanism To Lift Load Over Stairs	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

191	Raghavendra M J	-	Survey Tactic to Learning the Impact of Management Factor in Employing TPM in Selected SMEs	International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International	2023	978-93-92537-51-6	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
192	Raghavendra M J	-	Manufacturing of EDM electrode by Direct Metal Laser Sintering method	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
193	Raghavendra M J	-	Design and Development of Agriculture Seeding Drone	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

				RTIMES 2023						
194	Raghavendra M J	-	Pick and place robot controlled by IOT with voice over command	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
195	Lokesh K S	-	Forest Fire Detection and Extinguisher Drone	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

196	Shankar K S	-	Automatic brake failure indicator with automatic braking by electromagn et coil type braking	Proceedi ngs of 2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
197	Sandesh K.S	-	Survey Tactic to Learning the Impact of Managemen t Factor in Employing	Internati onal Conferen ce on Sustaina ble Innovati ve Strategie s For Business Develop ment in the Current Scenario	Internati onal Conferen ce on Sustaina ble Innovati ve Strategie s For Business Develop ment in the Current Scenario	Inter natio nal	2023	978- 93- 92537 -51-6	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
198	Sathyap rakash A	-	Developing an Automated Leak Detection System for Fluids in Ships	Proceedi ngs of 2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences	2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru

				RTIMES 2023						
199	Sathyap rakash A	-	The factor that influences on timely completion of work in micro and small-scale industries and the current manufacturi ng culture	Proceedi ngs of 2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru
200	Jayaram Thumbe	-	Design and Fabrication of a parabolic trough solar collector to generate steam	Proceedi ngs of 2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	2nd Internati onal conferen ce on “Recent Trends in Mechani cal Engineer ing Sciences RTIMES 2023	Inter natio nal	2023	978- 81- 96601 4-4-7	Sriniva s Institut e of Techno logy, Valachi l, Mangal uru	Srini vas Insti tute of Tech nolo gy Man galu ru

201	Jayaram Thumbe	-	Traffic Signal Violation Detection System	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
202	Mohamed Gowsper	-	The factor that influences on timely completion of work in micro and small-scale industries and the current manufacturing culture	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
203	Mohamed Gowsper	-	Design And Fabrication Of Controller Driven Gyro stabilizer For Smaller Boat	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

				RTIMES 2023						
204	Venkatesh Rao	-	The factor that influences on timely completion of work in micro and small-scale industries and the current manufacturing culture	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
205	Mr. Srinidhi Kukula	-	Design and Fabrication of Propellant For Hybrid Rocket Engine Using 3 D Printing.	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

206	Sandesh K S	-	Preparation and Properties evaluation of Bio-lubricants derived from biomass	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
207	U N Baipadit haya	-	Design and Fabrication of Smart Polar coordinated Fire Extinguisher	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
208	Shashank S	-	Manufacturing of EDM electrode by Direct Metal Laser Sintering method	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

				RTIMES 2023						
209	Shashank S	-	Survey Tactic to Learning the Impact of Management Factor in Employing	International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International Conference on Sustainable Innovative Strategies For Business Development in the Current Scenario	International	2023	978- 93- 92537 -51-6	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
210	Nithin Joshuva	-	A comparative study on mechanical properties of titanium dioxide and graphene nanoparticles with natural composite fibers	Proceedings of 2nd International conference on “Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on “Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978- 81- 96601 4-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

211	Vivek v kumar	-	Flow Analysis for Dehydration Process for Tray Drying System for Seeds	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
212	Vivek v kumar	-	Calculation and Analysis of Carbon Intensity Indicator for Merchant Vessels	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru
213	Tony K S	-	Design and Fabrication of Canning Equipment for Tuna Fish	Proceedings of 2nd International conference on "Recent Trends in Mechanical Engineering Sciences	2nd International conference on "Recent Trends in Mechanical Engineering Sciences RTIMES 2023	International	2023	978-81-966014-4-7	Srinivas Institute of Technology, Valachil, Mangaluru	Srinivas Institute of Technology Mangaluru

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Combined Effect of Helical Screw-Tape and Water Based GO/Al₂O₃ Nanofluids on Heat Transfer Enhancement in a Double Pipe Heat Exchanger

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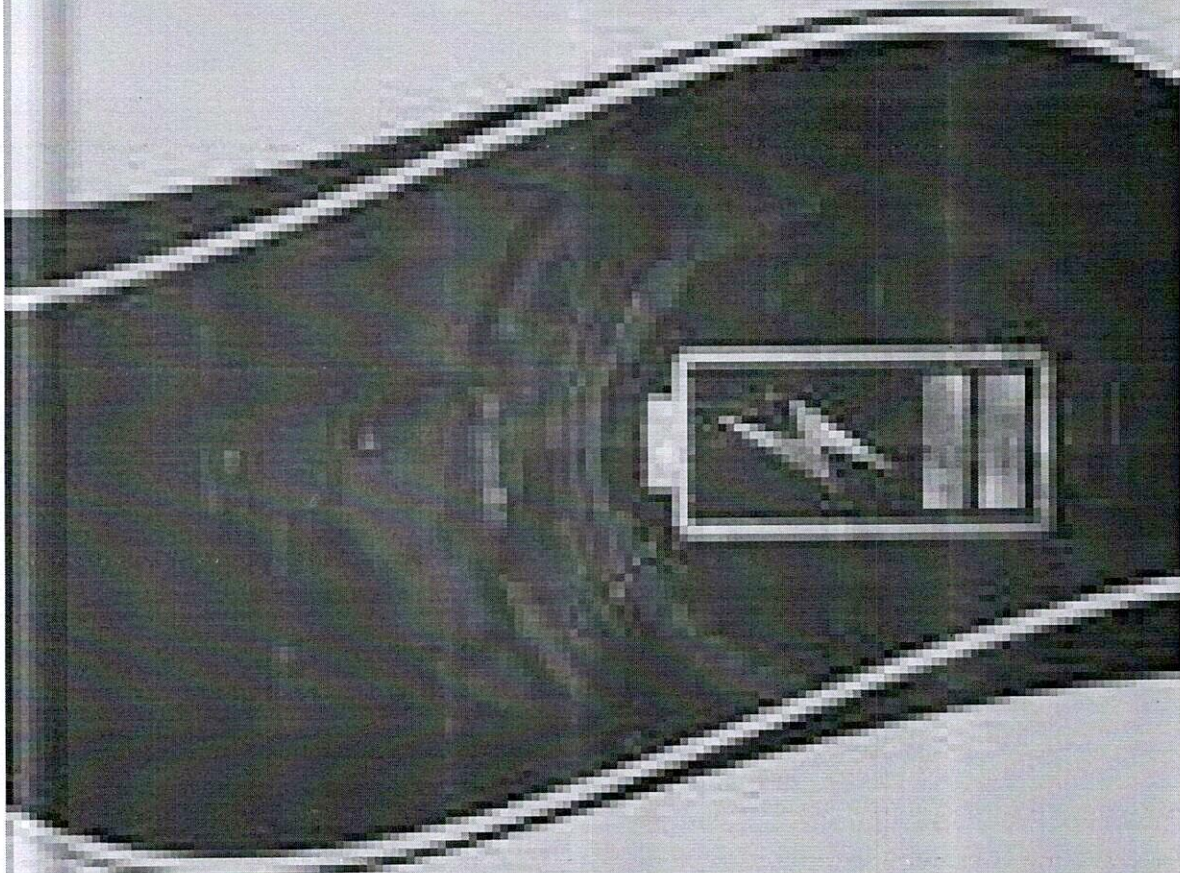
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Experiments were conducted with constant hot water flow ($Re = 2500$) in the inner tube fitted with helical screw-tapes (Number of helices: 5, 7, 9) and changed flow rates ($500 \leq Re \leq 5000$) of water-

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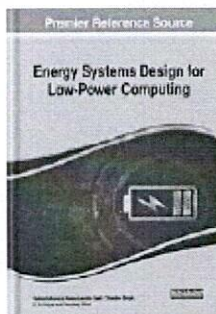
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Abstract

Through the ongoing downsizing and fast growth of heat flow of electronic components, cooling concerns are confronting severe tasks. This chapter examines the recent advancements and modernization in the cooling of electronics. The most popular electronic cooling technologies, which are classed as direct and indirect cooling, are examined and described in depth. The best prevalent methods of indirect cooling by employing heat pipes, microchannels, PCM are discussed. The efficiency of cooling strategies for various levels of electronic cooling requirements, as well as approaches to increase heat transfer capabilities, are also discussed in depth. Meanwhile, by considering the intrinsic thermal characteristics, optimization approaches, and pertinent uses, the advantages and disadvantages of various thermal management systems are examined. Furthermore, the present issues of electronic cooling and thermal management technologies are discussed as well as the prospects for future advancements.

Chapter Preview

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Introduction

Electronic equipment has penetrated almost all facets of new life, from toys and appliances to powerful processors. The worthiness of an electronic system is a key aspect in the total reliability of the system. Guarnieri M (2016) specified in his article that, integrated circuits (IC) have progressed significantly later in 1949 Werner Jacobi published the first conception of IC. An IC is a tiny chip constructed of the semiconductor material silicon that may hold lots of microelements viz., capacitors, transistors and resistors. It is often created using the several-nanometer method. As seen in Figure 1, integrated circuits are now employed in practically all electronic equipment, and modern life is closely entwined with numerous electronic items. These apps have greatly increased the efficiency and quality of labor, production, and living for modern people.

Figure 1. Major Applications of Integrated Circuits



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Figure 2. Dissemination of failure causes of electronic equipment.

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Ho-Ming Tong et al. (2013) depicted the failure reasons of electronic equipment in percentages as shown in Figure 2. Temperature, vibration, humidity, and dust are the most common reasons for electronic component failure. The greatest risk of failure is owing to heat production, which causes component temperatures to rise (Upto 55%). Electronic components rely on the flow of electricity to accomplish their operations and thus become incredibly powerful heat sources when the current passes through the resistance, causing continual heat buildup. In his book, Yunus Cengel A (2003) noted that the constant downsizing of electronic structures has resulted in a significant increase in the rate of heat generation by the volume of each unit. The failure of electronic equipment increases dramatically as the temperature rises. Furthermore, temperature changes create a rise in heat at electrical device joints on PCBs, which is a major cause of failure.

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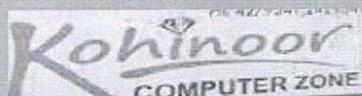
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Performance Investigation of a Novel Three - Bladed Finned Propeller for a Horizontal Axis Small Wind Turbine

Ramakrishna N Hegde¹, Prashanth M², Sneha P³, Neeraj P Angadi⁴, Ambika S N⁵

^{2,3,4,5} UG Scholars, ¹Professor & Head, Department of Aeronautical Engineering, Srinivas Institute of
Technology, Mangaluru, Karnataka, India

Abstract

Propellers are widely used in high-speed aircrafts, drones and marine industries. A propeller produces thrust by its rotation as a result of aerodynamic forces acting on its blades. The thrust produced by propeller is directly proportional to the product of amount of air flow on the blades and the accelerating rate of propeller. Finned Propeller is a type of propeller which has been modified by adding fins on back of each propeller blade. Its purpose is to improve the thrust/efficiency of the propellers. According to blade element and propeller momentum theory, adding of the fins could increase the fluid flow at the back of propeller.

So theoretically, finned propeller can be more efficient than original propeller. In this work, performance investigation is done on a novel propeller with attached fins on the back side of propeller blades. A benchmark study of 3 blade propeller is modeled using CATIA V5 software without and with fin attachment and analyzed for thrust/efficiency using ANSYS FLUENT software. Further, single blade profile with and without fins is fabricated using a 3D printer and is tested in the wind tunnel. The results are validated with the experimental results based on wind tunnel testing.

Keywords: *Finned propeller, TSR, HASWT*

RTIMES23010

Design and Fabrication of a Quadcopter with an Inbuilt Coded Control Mechanism for Detection of Leaf Spot Disease and Simultaneous Pesticide Spray in Arecanut Plants

Dr. Ramakrishna N Hegde¹, Apeksha G P², Monisha N³, S Trupthi⁴, Richal Mohan⁵
UG Scholars ^{2,3,4,5}, Professor & Head¹, Department of Aeronautical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka India

Abstract

Areca nuts, also referred to as betel nuts, are a tropical crop. India is the world's second-largest producer and consumer of areca nuts. The fungal disease known as areca nut leaf spot disease damages the leaves of the areca nut palm tree. The fungus *Marasmiellus arecae*, which attacks leaves and produces irregular, circular patches of yellow, brown, or black hue to form on the surface of the leaves, is what causes the disease. Tropical locations are prone to the disease, which spreads swiftly and causes defoliation and yield loss. Areca nut leaf spot disease can be handled using a variety of cultural and chemical techniques, including trimming and removing affected leaves, applying fungicides, and employing areca nut palm types that are resistant to the disease. Even if there are medications for this. In the existing system disease detection and spraying are individually done that adds to operating cost and time. A combined system incorporating both these could address the above issue.

In this work, a quadcopter of 3kg payload is designed, modeled, assembled and used to identify the leaf spot disease and simultaneously spray. A microcontroller Raspberry Pi 3 model b+ is trained with datasets containing the images of healthy and diseased leaves. A dedicated code to detect the disease and simultaneously spray pesticide using Python 3.8.5 was written. The quadcopter mounted Raspberry Pi 5MP camera was used for preliminary investigation to capture possible signs of the leaf spot illness, visible circular patterns viz., black or dark brown on the leaves. The spraying mechanism typically consists of a tank for holding the liquid, nozzles for spraying the liquid, and a pump for delivering the liquid to the nozzles. The proposed work is helpful for the earlier detection of the disease, and benefits the farmers to take timely action.

Key Words: *Areca nuts, Quadcopter, Leaf spot disease*

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Use of Precipitation Hardening for Natural Granite Powder Reinforced Al7075 Alloy

Floyd Steev Santhmayer, Gagan, Anush Kumar Acharya, Iyas Ahmad K

Abstract

This project deals with research and innovation and use of precipitation hardening treatment (age hardening) for Natural granite powder reinforced Al 7075 alloy composites with improvement in hardness related properties and beneficial effect on natural aging phenomenon. In this project at first we are going to take metal matrix as Al 7075 and reinforcement as Natural granite powder and then, the composite is stir casted it will get in the form of rods and billets as per the test requirements. Then homogenization treatment keeping the rods and billets in resistance furnace (hot air oven) at 400*c or 500*c. Then machining will be done (giving the shape for the material). The alloy is heated beyond the solubility temperature and absorbed until a homogenous solid solution is generated during the subsequent solutionizing treatment, which is the initial stage in the precipitation hardening process. To validate the distribution of reinforcements in the matrix, analysis of the microstructure is done. Microstructure (SEM) and micro hardness (Vickers's) study is conducted to witness the reinforcement phase transformation during precipitation hardening process. The hardness effect on conventionally aged and precipitation treated composites.

The major heat treatment method employed to enhance the desirable hardness related properties of heat treatable Al-Zn- Mg alloy (Al 7075) and its composites is conventional age hardening. Age hardening treatment results significant improvement in the hardness related properties by the controlled aging process. Tensile property is improved by the equal distribution of tougher and stronger particles in the matrix of an aluminum alloy. In comparison to less densely reinforced composites, the Al 7075 with silicon carbide powder reinforced (martensite form) composite demonstrated good peak age (at 100°C) hardness, tensile strength, and natural ageing resistance.

Keywords: *Hardening, Heat treatment, Reinforcement, Metal matrix*

RTIMES23043

Unmanned Aerial Vehicle for Fire and Safety

Melvin Alex¹, Ibrahim Anas¹, Ajaaz C. A.¹, Meghana J.K.¹, Rajesh¹

¹Department of Aeronautical Engineering, Srinivas Institute of Technology, Mangalore, -574143, Karnataka, India

Abstract

Fire accidents are common occurrence in manufacturing industries, oil industries, forest fires, nuclear power plant, coal industries and mining as well. lot of fire Fighters risk their lives being the first responders to such disasters. Some of these fires are deadly and a lot of brave lives are lost in these accidents. One such way to save these lives is to create a device to be used by the first responders to clear the path for further help. it is important to save these lives and to give dangerous tasks to the machines. One such way is to create a drone to clear the path for the fire Fighters to extinguish and evacuate the civilians. The drone can be equipped with fire repression or fire extinguishing material or devices. the drone can also be equipped with safety kit for emergency and can be delivered to civilians in need where the fire Fighters cannot get to on time. The drone will provide great maneuverability and can access small, inaccessible, compact, or remote areas.

Keyword: Fire accidents, Drone, Fire Extinguisher, Extinguisher Ball, Robotic Gripper, Pixhawk.

Forest fire detection and extinguisher drone

Prof. Lokesh K S¹, Sachin², Rakesh A P³, Mohamed Aftab⁴, Manoja Kumara K M⁵

¹ Assistant professor, Department of Aeronautical engineering, Srinivas institute of technology, Valachil, Mangaluru-574143 Karnataka India.

^{2,3,4,5} Students, Department of Aeronautical engineering, Srinivas institute of technology, Valachil, Mangaluru-574143 Karnataka, India.

Abstract

UAV – Unmanned Aerial Vehicle, commonly called ‘DRONES’ are pilotless aircraft. Forest Fire Accidents can cause serious injury and damages to the wildlife and environment. General Fire accidents occur often unexpectedly and sudden. Forest Survey of India (FSI) reported revealed that Uttarakhand 12,985 wildfire incidents between November 2021 and June 2022. According to FSI data, Uttarakhand is among the 10 states with the most such cases. When the Fire service responders arrive on a Fire scene, it is very difficult for them to predict the situation subjected to Fire, so Drone can be a solution for the Fire fighters to take decisions about where to concentrate resources and how to approach and enter the scene. To save as many lives as possible, it is important to leave dangerous tasks to machines. One such device is a drone; it provides great maneuverability and doesn't risk any personnel.

Drones can also gather information at greater speed, reliability and are also able to drop items. Thus, Our drone initially detects the fire by using frame sensor and next fire extinguish work is done. The more number of drones can be used for moisture the boundary of region of forest fire by drone cloning. All drone works under a queen drone which will be more effective in extinguishing the forest fire. Drone enters the forest area in which it works as a surveillance, as the fire in any region of forest is detected it captures the location and sends the exact location to the controller. Then the precaution measure for that is taken. The inflammables are carried near to the fire region, then our drone will help in carrying the pipe through which the moisture content is released through pump.

Keywords: Unmanned aerial vehicle (UAV), Machine Learning, Fire fighting, Object Detection, Flammable Gases, Temperature sensor, Flight Controller, Internet of Things.

RTIMES23014

Weather forecasting using Arduino-based Cube satellites

Praveen Shenoy K¹, Dinesh M², Rithesh H P², Shravan Kumar U M², Shreeganesh B U²,
Deepak M kurubar², Dhanush D B²

¹Associate Professor, Department of Aeronautical Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru – 574 143, Karnataka, India.

²UGStudents, Department of Aeronautical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru –
574 143, Karnataka, India.

Abstract

The ease in usage of CubeSats to access space-based research has become popular due to the competition in the launch market and the reduction in the cost of the technology. Space instruments are getting smaller, lighter, and more efficient as technology is used more effectively. Smaller satellites, such as CubeSats, help us understand the variations in the physical properties & characteristics such as climate, temperature, humidity, moisture level, dust concentration & pressure variations, many of which reflect the Earth's atmospheric changes. CubeSats offer a maximum payload of 1 kilogram and a basic form factor of 1000 cubic millimeters. Therefore, the current study aims to design and develop a CubeSat to capture wireless data from a higher atmospheric level using sensors and integrate them into locally available Arduino-based microcontrollers. "Long Range" (LoRa), a radio communication technique, is the communication module for a range of 1km. Data is captured at every 200m from the ground level to forecast the variations in the sensor readings. The latitude and longitudinal values of the CubeSat are captured using GPS. The designed CubeSat is used for weather monitoring and forecasting. Further, the project finds applications in defense, automotive and surveillance sectors, especially in agriculture monitoring.

Keywords: *Microcontrollers, GPS, CubeSats.*

RTIMES23044

Design and Fabrication of Propellant for Hybrid Rocket Engine using 3D Printing

Shamsulsadiq¹, Vinaykumar H S², Neha K U³, Sagar KK⁴, Mr. Srinidhi Kukkila⁵
*Student^{1,2,3,4}, Assistant Professor⁵ Department of Aeronautical Engineering, Srinivas Institute of
Technology, Mangalore-547143, Karnataka, India*

Abstract

The production of propellant for hybrid rocket engines was done in this project. A hybrid rocket is simply one that uses fuel in two different forms, such as liquid, gas, or solid. About 1930, the idea of a hybrid rocket was first proposed. In order to determine the effective burning rate, this work tests a variety of elements in small-scale fire tests. The components consist of photosensitive resin, polylactic acid (PLA), and Acrylonitrile butadiene styrene (ABS). Acrylonitrile butadiene styrene (ABS) and polylactic acid (PLA) were compared, and photosensitive resin was used to measure the materials' elasticity. Different compositions were tested and their effective combustion rates were compared. In comparison to photosensitive resin, Acrylonitrile butadiene styrene (ABS) and polylactic acid (PLA) have a lower regression rate and longer combustion duration. A form of polymer called photosensitive resin hardens when exposed to ultraviolet light; it is mostly utilized in 3D printing and other applications. The rocket business usually uses photosensitive resin. Therefore, the focus of this report is on photosensitive resin, including its design, manufacturing process, and comparison with current hybrid propellant.

Keywords: *Acrylonitrile butadiene styrene, propellant, polylactic acid*

Tulunadu, situated in the southwestern coastal region of Karnataka, has a distinct identity resulting from several layers of historic development and cultural influences. Mangaluru, locally known as Kudla, is one of the region's ancient and prominent sea trade centres. The region's rich biodiversity comprises numerous west-flowing rivers and a sensitive coast bordered by the Western Ghats to its east, making it a UNESCO world natural heritage site. Despite having many external cultural influences, the region has managed to maintain its unique cultural character, with Tulu, one of the five major Dravidian languages, still being the most widely spoken tongues. The local landscape, built-form, literature, performing arts, crafts and rituals, represent the historic saga of the region. However, there have been many emerging threats to both the natural and cultural heritage due to various anthropogenic, economic and developmental pressures. There is an urgent need to sensitize the local people and the future generations on the significance of conserving our rich regional heritage.

INTACH Mangaluru Chapter was established in 2016.



CHENNU

MANGALURU CITY PROFILE



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PROJECT TEAM

Concept

Subhas Chandra Basu

Convenor, INTACH Mangaluru Chapter
e: intachmangaluru@gmail.com

Text

Caroline D'Souza, Niren Jain,

Shalmali Shetty, Subhas Chandra Basu,
Prithuma Monteiro

Layout and Design

Sharvani Bhat, Sujith K. V.

Photography

Yajna, Murali M. Abbemane,

Vivek Gowda, Skanda Vrishank,

Shalmali Shetty, Subhas Chandra Basu

Illustrations

Santhosh Andrade, Reshma S. Shetty

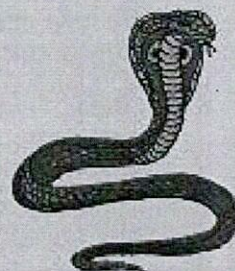
Project Coordinators

Rajendra Kadige, Harish Kodialbelli

Front Cover: *Chenna Nalike*

Photo: Yajna, (1990s)

Chenna Nalike is an ancient traditional art form practised particularly by the Magera community. This is performed by singing *Puzh-danas* during the harvest months of February and March.





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Impact of Multidisciplinary knowledge in improving the quality of Architecture and Planning

Sangeeta S.

Srinivas School of Architecture, SIT, Valachil , Mangalore

Abstract

Architecture and Planning is one of best examples where multidisciplinary studies and collaborative research helps in improving the quality of profession. In India, Architects get licence to practice architecture after completing B. Arch, a five-year full-time programme which is a blend of theoretical and practical knowledge. They are trained to plan, design and construct physical built structures by understanding its interaction with the unbuilt spaces. Realm of Architecture and Planning is understanding the tangible and intangible aspects and designing judiciously. Knowledge of climatology and ecology helps to understand how a space behaves throughout a day, through seasons and how manmade and natural features of the site relatively behave with each other. Knowledge of sociology, anthropology and psychology helps in understanding human behaviour and levels of social interaction, which in turn helps in designing spaces that are for the best of human comfort. Knowledge of digitisation, modelling and rendering helps in communicating the ideas through various visual representation techniques. Designing team with expertise in multi disciplinary areas can tackle complex projects by using their combined skills and can definitely develop holistic solutions.

Keywords : Architecture, Multi-disciplinarity, Digital modelling, Ecology, Social and behavioural sciences

RTIMES23007

Design and analysis of triple co-axial nozzle combustor

Jagadeesh B¹, Syeda Shafiunnisa Begum², Vidyashree H G, Mohamed Younus, Jayashree J⁵

Assistant Professor¹, UG Scholars^{2,3,4,5},

Department of Aeronautical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka, India

Abstract

In jet engines, missiles, rocket propulsion and high-speed turbine, etc., nozzles are subjected to air flow with flue gasses. Fluid dynamics of the compressible flow is generally referred as gas dynamics which deals with the thermodynamics and fluid mechanics of the compressible flow. In constant area ducts, thermal choking can be a severe constraint at high heat addition rates and high inlet Mach numbers. To offset this problem, the combustor will have to be provided with a divergent portion with a gradual increase in area or sudden increase in area. In addition, at high inlet Mach number, the flow velocities are much higher than the turbulent flame speeds. This would naturally cause any flame to extinguish. Hence, a suitable method should be designed to create a local low velocity region where a flame can be stabilized. In this project we are focusing on modeling and analyzing triple co-axial nozzle in order to produce increased thrust with high specific impulse due to supersonic combustion.

Keywords: *Jet engines, Co-axial Nozzle, Thermal cooking*

RTIMES23035

Thermoelectric Generator in Aircraft Engine

Mohammed Afraaz Sheikh¹, Mohammed Faaris², Zahid Muhammad³, Mr.Jagadeesh⁴

⁴Associate professor, Department of Aeronautical Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India.

^{1,2,3} UG scholar, Department of Aeronautical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-
574143, Karnataka, India

Abstract

Increasing energy production in accordance with industry development, transportation and life quality improvement is a topic that needs to be addressed. Energy policy makers and researchers have aimed at energy management, particularly by improving energy systems performance. This project explains the rising interest of thermoelectric technology and applications. Nowadays, thermo electric technology such as thermoelectric generators (TEGs) and thermoelectric cooling systems (TECs) provide heat loss recovery of thermodynamic units for power production of remote areas. Unlimited solar energy can also be employed for thermoelectric power production.

The principles of thermoelectricity and presents an explanation of current and upcoming materials. The thermoelectric generator can help the aircraft to not just depend on the turbine to generate power and will produce electricity using the temperature difference of engine and the surrounding air this can over all improve the efficiency of the aircraft engine and reduce the fuel consumption.

Keywords: *Thermoelectric generators (TEGs), Thermo electric cooling systems (TECs).*

RTIMES23040

Chassis design for electric vehicle.

Mohammed Shazin V F¹, Prakash S T², C K Wasiq Abdul Rahiman³, Mohammed Valeed M A⁴,
^{1,3,4,5}UG student, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil, Mangaluru –
574 143, Karnataka, India.

²Assistant Professor, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil, Mangaluru
– 574 143, Karnataka, India.

Abstract

This document focuses on the design of the electric Eco-Drive chassis. Chassis is a frame like a skeleton in which all parts of the machine are installed. The main criteria for the development of electric vehicle chassis are rigidity, strength, and cost elimination. The chassis is very important piece of an electric vehicle, representing safety and life. To get the performance requirements of the automotive market dominated by motor vehicles, the construction of electric vehicles must be lightweight, durable, and long-lasting. In addition to the battery, the chassis of the vehicle carries a considerable amount of weight. The lightweight chassis has been optimized and will not affect the proper rigidity and strength. Various materials have been considered and evaluated. The main goal is to use static and modal analysis to evaluate chassis deformation to reduce weight and improve vehicle performance in challenging low energy races and to fabricate the chassis which is designed. The objective is to develop a chassis which is anchored with modern requirements and futuristic research based on conventional chassis design methods to find an optimal solution for this specific vehicle and to fabricate the chassis.

Keywords: *Chassis Structure, Electric Vehicle, Tubular chassis, Chassis Safety, chassis Functions.*

RTIMES23018

Fabrication of Battery Management System for Electric Vehicle.

Vipul Kumar T R¹, Prakash S T^{2*}, Abhishek Rao G³, Kishan Narayan Babajiyavar⁴, Saeed Safiulla Rahiman⁵

¹ Assistant Professor, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil,
Mangalore – 574 143, Karnataka, India

^{2,3,4,5} Students, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil,
Mangalore – 574 143,

Abstract

A battery management system (BMS) is required for any battery-powered system, including renewable energy systems, electric and hybrid automobiles, and other applications. The BMS is responsible for ensuring the battery operates safely and effectively by monitoring its state of charge (SOC), state of health (SOH), and other critical metrics. The purpose of this project is to design and implement a BMS for a 48V lithium-ion battery pack used in a tiny electric vehicle. At the beginning of the project, a summary of lithium-ion battery technology is given, along with information on its charging and discharging characteristics and the factors affecting its performance and safety. The many BMS designs—central, distributed and modular systems, for example—are then discussed. The centralized BMS architecture, in which all monitoring and control functions are integrated into a single device, was chosen for this project due to its simplicity and ease of use. The BMS is integrated into the electrical system of the car, and its performance is evaluated in a range of operational scenarios. The overvoltage and under voltage protection limits are verified with a reference battery tester, and the accuracy of the SOC and SOH estimations is verified with a high-power electronic load.

The battery pack is exposed to a range of outdoor temperatures. An experiment is conducted with the temperature monitoring feature. The voltage balance between the cells is measured in order to evaluate the cell balancing feature. This project involves designing and implementing a BMS for a lithium-ion battery pack used in an electric car. The Battery Management System (BMS) guarantees the battery pack's dependable and secure operation by monitoring critical parameters and controlling the charging and discharging cycles. The project provides a development schedule for BMS for different applications and highlights the importance of BMS in battery-powered systems.

Key words: Battery Management System (BMS); Components, Functions, Challenges; Electric Vehicle; Lithium-ion Battery; State of Charge; State of Health; Battery Safety.

RTIMES23008

Gain scheduling for hybrid aircraft to move from vertical to horizontal position

Girish A R¹, Shifa Farook Badiuddin², K Renuka³, Amarthya Raj⁴

UG Scholars ^{2,3,4}, Assistant Professor ¹ Department of Automobile Engineering, Srinivas Institute of Technology,
Mangaluru, Karnataka, India

Abstract

The flight mode in the hybrid aircraft combines the hover capability of a helicopter with the speed and range of an airplane, i.e., it has the features of both a helicopter and a fixed-wing aircraft. There are three main flight modes: helicopter flight mode with low forward speed, conversion flight mode, and airplane flight mode with high forward speed. In the recent years, advances in the field of automatic controls for hybrid aircrafts have been made.

The most difficult control problem for the hybrid aircraft is the conversion of flight control since, during this process, the aircraft is characterized by the highly nonlinear and strongly coupled dynamics and large modeling uncertainties, which make the control issue much more challenging than it is for the conventional aircrafts. The hybrid aircraft can also be referred to as a tilt rotor aircraft. In the proposed approach we schedule the gain of the hybrid aircraft with the nacelle angle and speed. Flight dynamic model for a hybrid aircraft is created and validated through Programming for smooth conversion flight mode. The automatic conversion flight mode is performed, demonstrating the efficiency of the created system.

Keywords: *Flight mode, Helicopter, Tiltator, Hybrid aircraft*

Fabrication and Development of BLDC Motor and Controller for Designed Electric Vehicle

Girish A R¹, Chandan M², Abhishek³, Chanchal Kurian⁴, Nithin Thomas

¹ Assistant Professor, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil,
Mangalore – 574 143, Karnataka, India

^{2,3,4,5} Students, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil,
Mangalore – 574 143,

Abstract

Electric vehicles are the most effective alternative for green mobility. Many electric motors have been used as the driving force for electric vehicles. Simulation is used to compare the performance of switching reluctance motors, induction motors, brushed direct current (DC) motors, and permanent magnet Brushless DC (BLDC) motors under normal and emergency conditions. According to this research, BLDC motors are the best electric motors for high-performance electric vehicles. To evaluate the motor performance for various control schemes, an exact model of a BLDC motor is required. Because of their high efficiency and lack of greenhouse gas emissions, BLDC motors with adequate back-Electro Motive force (EMF) voltage are the ideal alternative for green transportation.

The effectiveness of switching reluctance, induction, and permanent magnet Brushless DC (BLDC) motors under regular and emergency settings is examined using simulation. According to this research, BLDC motors are the best electric motors for high-performance electric vehicles. To evaluate the motor performance for various control schemes, an exact model of a BLDC motor is required. A precise model of a BLDC motor is necessary to evaluate motor performance for various control approaches. As a result, an optimal back-Electro Motive Force (EMF) voltage BLDC motor is required. Brushless DC motors are replacing brushed motors in many industrial applications. BLDC electric vehicles are also becoming more popular in

Keywords: *Motor, Electric Vehicle, BLDC Motor, Controller, Electro Motive force (EMF), Brushless DC, Direct Current, Motor and Controller Challenges*

RTIMES23017

Design and Fabrication of Brakes And Suspension System of EV.

Girish A R¹, Rohan M K², Suhan Raj³, Ajith N V⁴

¹Assistant professor, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India.

^{2,3,4}UG scholar, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India

Abstract

Suspension systems don't tend to get much publicity, but they're probably the most crucial factor in the day-to-day enjoyment of your car. Automakers are always tweaking and refining their designs in search of that elusive ideal: a perfect ride coupled with race-worthy handling. We have not quite gotten there yet, but the latest systems are better than ever at reconciling the competing goals of comfort and performance. Like most other components on a vehicle, manufacturers have taken many different approaches when it comes to suspension design. Luxury cars are engineered for a comfortable ride, while sports cars need to corner at high speed. Trucks, on the other hand, need to carry heavy loads and may travel off the pavement.

With the continuous progress of society, the continuous development of the times, people's living standards continue to improve; people continue to improve the pursuit. With the rapid development of automobile manufacturing, the car will be all over the tens of thousands of households, the increase in car traffic, a direct result of the incidence of traffic accidents. Brake system is the guarantee of the safety of the car, its technical condition is good or bad, directly affect the operational safety and transportation efficiency, so the brake system is reliable. The requirement of the car on the braking system is to have a certain braking force to ensure reliable work in all cases, light and flexible operation. Normal braking should be good performance, in addition to a foot sensitive, the emergency brake four rounds cannot be too long, not partial, not ring.

Analysis and Optimization of Electric Vehicle.

Harish B K¹, Varun Narayan², Alois Fernandes³, Mandel Deepak⁴, Shaakir Mhekri⁵

^{1,3,4,5} Students, Department of Automobile Engineering, Srinivas Institute of Technology,
Valachil, Mangaluru – 574 143, Karnataka, India.

² Assistant Professor, Department of Automobile Engineering, Srinivas Institute of Technology,
Valachil, Mangaluru – 574143, Karnataka, India.

Abstract

This paper presents an analysis and optimization study of an electric vehicle (EV) in order to improve its efficiency and performance. The study involves various aspects of the EV including its power train, battery system, and control algorithms. A detailed analysis is performed to identify the sources of energy losses in the EV and to determine the optimal operating conditions. Different optimization techniques are employed to improve the performance of the EV, including control optimization and battery management system optimization. The results show that significant improvements in energy efficiency and performance can be achieved by optimizing the power train and battery system of the EV. The findings of this study have important implications for the design and operation of EVs, which are becoming increasingly important in the context of sustainable transportation.

Keywords: Optimization, Efficiency, Performance, Power train, Battery System, Control Algorithms, Energy Losses.

RTIMES23013

Design and fabrication of Steering System For EV.

Prithesh S Shetty¹, Varun N^{2*}, Ashwath Kumar³, Charush D⁴, Rohith⁵

^{1,3,4,5} Students, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil, Mangaluru – 574 143, Karnataka, India.

² Assistant Professor, Department of Automobile Engineering, Srinivas Institute of Technology, Valachil, Mangaluru – 574143, Karnataka, India.

Abstract

The goal of this project is to create a brand-new electric car that uses the newest developments in battery technology. Compared to existing electric vehicles, the vehicle will be able to go farther, faster, and more efficiently thanks to a variety of innovations. In particular, the car will have an effective charging mechanism and a battery that can store more energy than those found in existing electric cars. In order to go faster while consuming less energy, the car will also be lightweight and aerodynamic. It will also have a cutting-edge navigation system to aid drivers in finding their way about more efficiently. Lastly, the car will include smart home connection, which will let drivers check battery levels and operate the car from a distance.

This project aims to develop an eco-friendly and more efficient electric car that satisfies the demands of contemporary drivers. The design and construction of an electric vehicle's steering wheel are shown in this project. The purpose of this project is to create a steering wheel that is appropriate for use in an electric car. The project talks about the materials and design method used for the steering wheel, as well as the parts that go into making the wheel. The right material must be chosen, the required design drawings must be made, the parts must be machined, the components must be assembled, and the wheel must be tested for dependability and performance. Test findings are presented along with the final design and construction of an electric vehicle's steering wheel.

Keywords: *Steering System, Electric Vehicle, Electric Power Steering (EPS), Steering geometry, Lock Angles, Turning Circle radius, Steering Force, Driver Seat Ergonomics.*

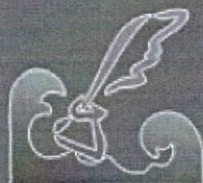


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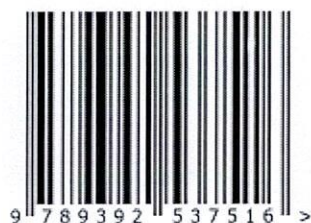
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Survey Tactic to Learning the Impact of Management Factor in Employing TPM in Selected SMEs

M.J. Raghavendra, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka. E-mail: raghavendra.ram@sitmnng.ac.in

K.S. Sandesh, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

N. Varun, Department of Automobile Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

S. Shashank, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

Abstract--- In the present technologically advanced business environment, industries need to adopt modern maintenance practices such as Total Productive Maintenance (TPM) to support their production facilities and systems. TPM is a Japanese philosophy which strives to improve the productivity of machines by reducing breakdowns, defects, accidents and wastes. It collaborates maintenance and production functions by the total participation of all the employees in an organization. This research work is carried out in Small and Medium Enterprises (SMEs) with the help of a questionnaire designed to investigate the usage and awareness level of TPM. The pre-set questionnaire is distributed to 150 different SMEs in India and 120 responses are received. These 120 responses are considered for the analysis. The respondents are randomly selected and they include chief executives, engineers, managers and supervisors. The responses obtained are rated on a five-point Likert scale. This questionnaire-based survey research also helps to study the influence of management factor in implementing TPM in the selected SMEs.

Keywords--- Maintenance, TPM, Productivity, SMEs, Likert Scale.

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Radio Control, Sonar Technology, Ultrasonic Sensor, Infrared Sensor.

Dr. Gangadhara Rao¹, Jayashree J², Mohamed Younus³, Syeda Shafiunnisa Begum⁴,
Vidyashree H.G⁵

¹Associate Professor, Department of Aeronautical Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru – 574 143, Karnataka, India.

²UGStudents, Department of Aeronautical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru –
574 143, Karnataka, India.

Abstract

In jet engines, missiles, rocket propulsion and high-speed turbine, etc, nozzles are subjected to air flow with flue gasses. Fluid dynamics of the compressible flow is generally referred as gas dynamics which deals with the thermodynamics and fluid mechanics of the compressible flow. In constant area ducts, thermal choking can be a severe constraint at high heat addition rates and high inlet Mach numbers. To offset this problem, the combustor will have to be provided with a divergent portion with a gradual increase in area or sudden increase in area. In addition, at high inlet Mach number, the flow velocities are much higher than the turbulent flame speeds this would naturally cause any flame to extinguish. Hence, a suitable method should be designed to create a local low velocity region where a flame can be stabilized. In this project we are focusing on modeling and analyzing triple co-axial nozzle in order to produce increased thrust with high specific impulse due to supersonic combustion.

Keywords: *Fluid dynamics, Mach numbers.*



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A WEB BASED APPLICATION FOR ATTAINMENT OF PROGRAMME OUTCOME THROUGH COURSE OUTCOME FOR OUTCOME BASED EDUCATION

Mr. Nagaraja Hebbar N¹, A M Shreenidhi², Abhijna G Rao³, Deekshita G S Harshita⁴
Venkatramana Moger⁵
Assistant Professor, UG Scholars^{2,3,4,5}
Department of MCA
Srinivas Institute of Technology, Mangaluru, Karnataka, India

Abstract

Image process could be a methodology to perform some operations on a picture, so as to induce Associate in Nursing increased image or to extract some helpful data from it. it's a kind of signal process within which input is a picture and output might be an image or characteristics/features related to that image. Image process tools include: OpenCv, Scikit Image, Numpy. A Generative Adversarial Network (GAN) is essentially wont to learn the extracted representations and any animate the photographs. the most object of our methodology is to create our framework additional governable and adjusting. Generative modeling is Associate in Nursing unattended learning task in machine learning that involves mechanically discovering and learning the regularities or patterns in input file in such how that the model may be wont to generate or output new examples that credibly might be drawn from the first dataset. OpenCV is Associate in Nursing ASCII text file python library used for pc vision and machine learning. it's principally geared toward time period pc vision and image process. it's wont to perform different operations on pictures that rework them victimization different techniques. Numpy could be a library for scientific computing in Python. It provides a superior flat array object and tools for operating with these arrays. A NumPy array is analogous to an inventory. we are able to solid an inventory to a NumPy array by first importation it. Numpy arrays contain information of a similar type; we are able to use the attribute "dtype" to get the info style of the array's components. The algorithms utilized in image process area unit morphological Image process, mathematician Image process, Fourier rework in image process, Convolution Neural, Edge Detection in image process, rippling Image process.

Computer Networking using Sustainable Energy

Sneha Bose, Assistant Professor, Department of AI&DS, Srinivas Institute of Technology, Mangaluru,
Karnataka. E-mail: snehabose093@sitmng.ac.in

Abstract--- A computer network that uses sustainable energy can help reduce carbon emissions and contribute to a more sustainable future. Here are some ways to achieve this: first method is to use renewable energy sources: One way to power a computer network sustainably is to use renewable energy sources such as solar, wind, or hydropower. This can be done by installing solar panels or wind turbines to generate electricity for the network. Additionally, you can use a combination of sources to provide a reliable supply of energy. The second way is Energy-efficient hardware: Use energy-efficient hardware such as servers, routers, and switches. Energy Star-rated equipment is designed to use less energy, so it can help reduce your energy consumption. Another method is Virtualization: Virtualization is a technique that allows multiple virtual servers to run on a single physical server, reducing the number of servers required and therefore reducing energy consumption. Another technique is Energy-efficient data centre design: If you have a data centre, ensure that it is designed with energy efficiency in mind. This includes using efficient cooling systems, optimizing airflow, and using energy-efficient lighting. The next method is Power management: Ensure that your computer network is configured to use power management settings that turn off or reduce energy usage when devices are not in use. Another method is Energy monitoring and management: Use energy monitoring tools to track the energy consumption of your network and identify areas where you can make further improvements. Implementing energy management systems can help to optimize energy use, reduce waste, and improve overall efficiency. Another technique is to Conduct an energy audit: Start by analysing your current network and determine how much energy it consumes. This will help you identify the areas where you can make improvements and reduce energy consumption. By adopting these measures, a computer network can operate sustainably and contribute to reducing carbon emissions.

Keywords--- Carbon Emission, Energy-efficient Hardware, Hydropower, Virtualization.

WATER QUALITY CLASSIFICATION USING GRADIENT BOOSTING CLASSIFIER

Prof. Madhusudhan S¹

Rahul R², Nabhan Hamed Rasheed³

Danishgani Asad Ali Khan⁴, Shrisha BS⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology Mangaluru, India

Abstract

The main objective of Water Quality Classification project is to measure water quality using machine learning methods. Machine learning is now a crucial technique for data analysis, classification, and prediction due to the exponential growth in the amount of data available on the aquatic environment. Data acquisition is a fundamental step in developing machine learning models. To implement a water quality prediction using machine learning techniques, our model predicts that the water is safe to drink or not using some parameters like Ph value, conductivity, hardness, etc. The different used models in this work to deal with this type of data considered a new challenge, where the efficiency and performance of the models will be tested with an irregular data set. The different used models in this work to deal with this type of data considered a new challenge, where the efficiency and performance of the models will be tested with an irregular data set. Calculation of water quality index WQI is one of the most widely used tools for determining the quality of water and its suitability for human use. Data-driven models based on machine learning have the ability to effectively tackle more complicated nonlinear problems, in contrast to conventional models utilized in water-related research. Models and findings from machine learning have been used in water environment research to build, monitor, simulate, evaluate, and optimize various water treatment and management systems. Machine learning can also offer solutions for reducing water pollution, enhancing water quality, and managing the security of the watershed environment.

CRIME PREDICTIVE MODEL HOTSPOT MAPPING USING MACHINE LEARNING

Prof. Madhusudhan S¹

Sumanth S Shet², Akshay Kumar MS³, Hemanth YJ⁴, Nireekshith TU⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology Mangaluru, India

Abstract

Crime prediction and hotspot mapping are essential tools in law enforcement for preventing and solving crimes. In this project, we propose a system that utilizes CCTV footage and sound detection to predict crimes and identify hotspots in real-time. The system uses computer vision algorithms to detect and track individuals in the CCTV footage, and machine learning techniques to analyze their behavior patterns and predict potential criminal activity.

Additionally, the system is equipped with a sound detection module that can detect screams for help and trigger an alert for law enforcement. The alert includes the location of the incident and the CCTV footage for further investigation. The system can also generate hotspot maps based on historical crime data, which can aid law enforcement in identifying areas with high crime rates and deploying resources accordingly.

The proposed system can be deployed in public areas such as streets, parks, and shopping malls to improve public safety and prevent crime. The system's effectiveness can be evaluated through real-world testing, and improvements can be made based on feedback from law enforcement and the public. Overall, the system has the potential to be a valuable tool in crime prevention and law enforcement.

VIRTUAL TEACHING BOARD USING COMPUTER VISION

Prof. Daya Naik¹

Sushanth,² Praneeth Shetty,³ Shashank K A,⁴ Ramith⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Department of Computer Science,
Srinivas Institute of Technology, Mangaluru, India

Abstract

In the software industry many whiteboard software are available. Each of them has its own pros and cons. One of the main disadvantages of these whiteboard software is the need of accurate pointing devices. Here we introduce the Smart virtual Board, which is a hand movements based writing software. It uses the hand movements for writing. User doesn't need an external hardware pointing device to draw. Instead the different hand movements of the fingertips are used for writing purposes. We designed this system as a primary level software product. The software can be further upgraded by improving the current features. The disadvantage of the traditional writing software is that they use traditional writing devices like mouse light, pens etc. Now it overcomes by Computer vision technology. The next evolutionary technology that will take over the world will be the hand movement technology. By using hand movements for communicating with system.

SKIN LESION'S CLASSIFICATION

Prof. Daya Naik,¹

Aaron lobo², b akshay baliga³, karthik ballal⁴, karthik bhat⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology, Mangaluru, India

Abstract

The biggest organ in the body is the skin. The integumentary system is made up of the epidermis and its byproducts, including the hair, nails, sweat, and oil glands. Skin's primary role is protection. It shields the body from environmental dangers like temperature, chemicals, and pathogens. Our project revolves around detecting dangerous illnesses connected to the skin, requires the identification of pigmented skin lesions. Image detection techniques and computer classification capabilities can boost the accuracy of skin lesions detection. The dataset used for this research work is based on the HAM10000 dataset which consists of 10015 images. We have used this dataset to train our model and the algorithm used for training purpose is MobileNet V2 and modified MobileNet. Since our dataset is highly unbalanced, we have performed Data Augmentation on the model. A model with data augmentation tends to learn more distinguishing characteristics and features rather than a model without data augmentation. Involving data augmentation improves the accuracy of the model. We have trained our model using other algorithms such as CNN K-fold, Resnet etc but the model trained on MobileNet V2 and modified MobileNet yields a better accuracy.

Application of AI-Predicated Algorithms for Feature Extraction and Evaluation in Chronic Kidney Disease Datasets

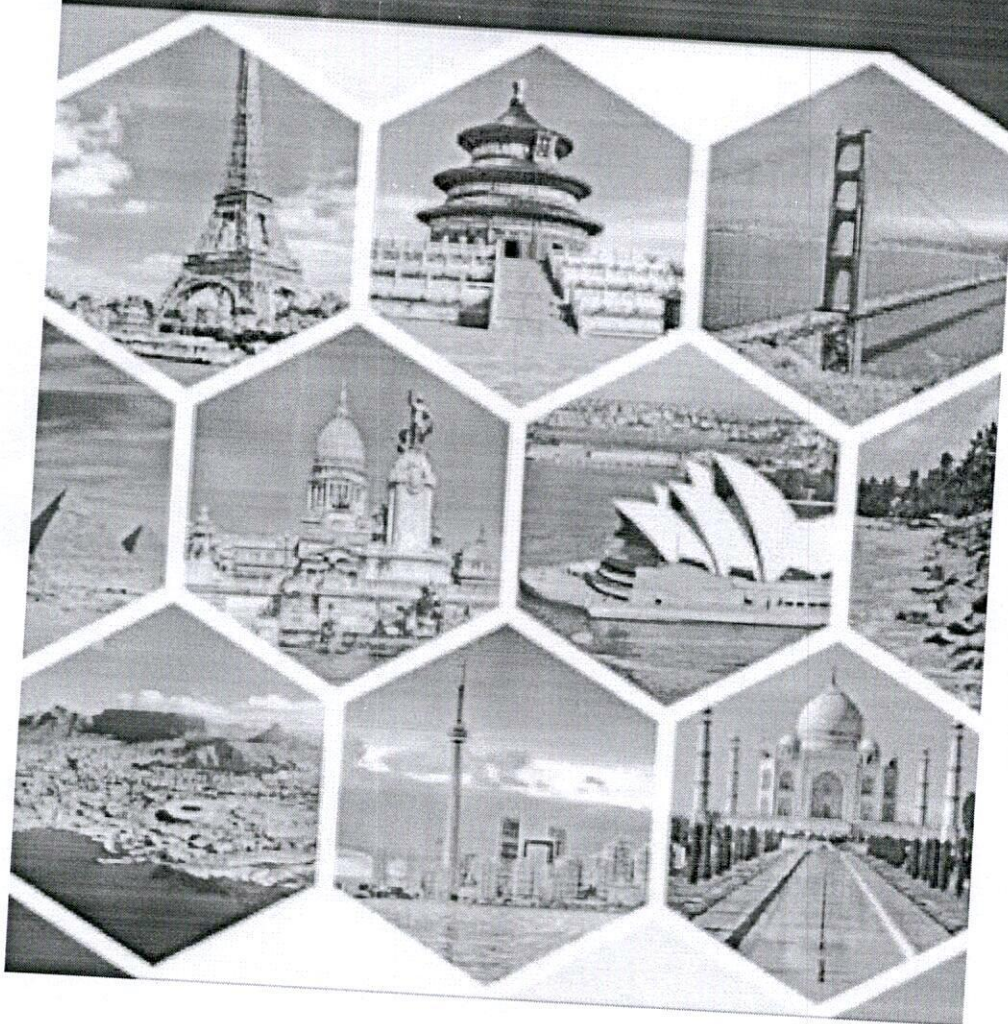
Jibin TV¹, Nihal Athri S², Parvathraj KMM³
UG Scholars^{1,2}, Assistant Professor³

Department of Artificial Intelligence And Machine Learning
Srinivas Institute of Technology, Valachil, Mangaluru, India

Abstract

Chronic Kidney Disease (CKD) is a growing global health concern, with its prevalence rates increasing rapidly. CKD often remains asymptomatic and is commonly underdiagnosed, while the use of guideline-directed monitoring based on comprehensive risk factors is not fully implemented. In this study, AI-developed algorithms were employed to identify and evaluate features in processed and fitted CKD datasets using three distinct methodologies. The objective of this research was to enhance CKD detection and prediction by leveraging advanced computational techniques. The accurate identification and management of CKD are crucial due to its progressive nature and potential for severe complications, including end-stage renal disease. Through the application of algorithms and sophisticated data analysis methods, this project aimed to improve risk identification and enable timely interventions for individuals at risk of CKD. It is important to note that additional contextual information would contribute to a more comprehensive understanding of the study and its implications.

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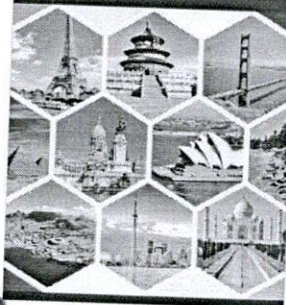
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HYBRID OPTIMIZATION-BASED ROUTING METHOD FOR IMPROVING SECURITY IN MANET

Shyamili P V¹, Dr. Anoop B K²
PG Scholar, Professor²

Srinivas College Of Engineering & Technology,
Srinivas University, Mangalore, India
Srinivas Institute Of Technology, Mangaluru, India


Abstract

This study seeks to evaluate the efficacy of the ABC-GOA Optimization-based Routing Method for achieving enhanced routing efficiency, secure communication, increased resistance to attacks, and optimized energy usage in Mobile Ad Hoc Networks (MANETs). The primary objectives of this study are to improve routing performance, implement dynamic key management for secure communication, minimize attack vulnerability, and optimize energy consumption in MANETs. Ultimately, the study aims to enhance communication security, performance, attack resiliency and energy utilization in Mobile Ad Hoc Networks by developing a methodology to interoperate the ABC-GOA Optimization-based Routing Method. The results from the experiments demonstrate that the proposed algorithm can increase routing efficiency, security, and energy conservation in MANETs. Overall, the ABC-GOA Optimization-based Routing Method provides significant improvements to routing and security in MANETs and has the potential to benefit distributed systems in many applications.

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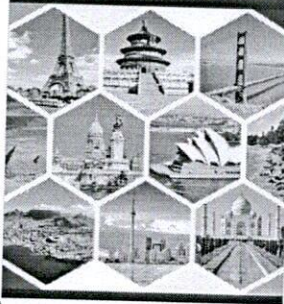
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Associate Professor,
Department of Mathematics,
Faculty of Intelligent Systems Engineering and Data Science,
Persian Gulf University, Bushehr, IRAN

IMPORTANT DATES

Last date for submission of Abstract	31th August 2023
Last date for submission of full - length paper	20th September 2023
Notification of Final Acceptance after review	15th September 2023
Final Submission of revised full length paper	24th September 2023
Early Bird Registration	28th August 2023
Last Date of Registration	17th September 2023
Date of Conference	26th & 27th September 2023

ABOUT SRINIVAS GROUP

Srinivas Group of colleges sponsored by A. Shama Rao foundation was established in the year 1988, with a vision of fastering excellent education. The group provides quality professional education in Medical, Allied Health Sciences, Pharmacy, Hotel Management, Business Management, Engineering, Education etc. Srinivas Group is well known for imparting innovative education and has state of the art facilities for education and training and also recognised as center of excellence in research across disciplines. The dedicated faculty believes in and works towards materializing the adage of "Education is our passion but not profession".

ABOUT SRINIVAS INSTITUTE OF TECHNOLOGY

Srinivas Institute of Technology (SIT) is one of the premier engineering colleges of the coastal region aiming towards high standards of education with holistic approach. SIT is recognised by AICTE, affiliated to VTU and accredited by NAAC. The Institute started in the year 2006, is a unit of A. Shama Rao Foundation, Mangaluru, and is located at the Srinivas Campus spread over 15 acres of land at Valachil, Arkula Village, about 10kms from Mangaluru city, adjacent to NH66. The institute hosts 3000 plus students studying under 9 UG, 5 PG programmes and 6 Research Centres

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The Department of Physics, Chemistry and Mathematics is started in 2006. It has well-established laboratories equipped with sophisticated instruments, which fulfill the needs of UG and Ph.D. students. Now, the Department is offering Ph.D in Physics and Chemistry. Based on the facilities available, the Department had been recognized as a Ph.D. research center by Visvesvaraya Technological University, Belagavi.

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The conference is intended in bringing out the innovative ideas of academicians in science, research scholars and students shall disseminate their original ideas and results to promote research and development activities, professional interaction and lifelong learning. Conference provides a platform to bridge the gap between industry and Academia. It also focuses on networking people with similar interests to have a collaborative work and to have better solutions to societal problems. The conference will be conducted in hybrid mode.

Call for Papers: Invited to send the the Research/Review papers for oral or poster presentation during the conference Refer the link for the format of Abstracts

PUBLICATIONS

Abstract of all selected papers will be published in conference proceedings with valid ISBN number. Based on the quality assessment by blind peer review. Selected papers will be published in reputed indexed journal with additional processing Fee.

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- THERMO ELECTRONIC MATERIALS, BIOMATERIALS
- COMPOSITE MATERIALS

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- INORGANIC CHEMISTRY
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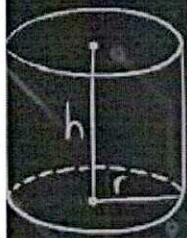
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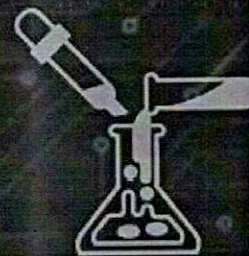
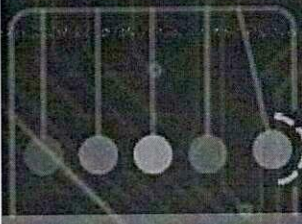
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ABSTRACTS

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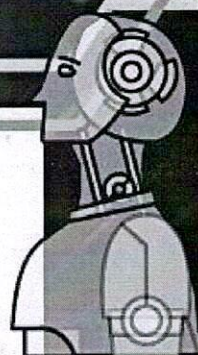
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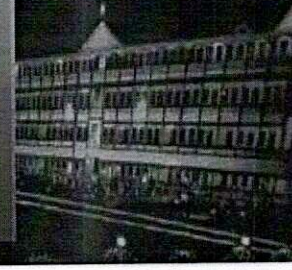
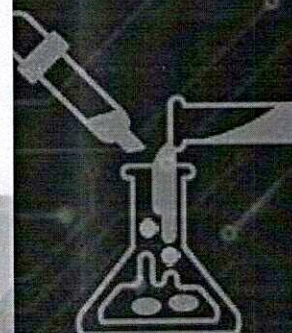
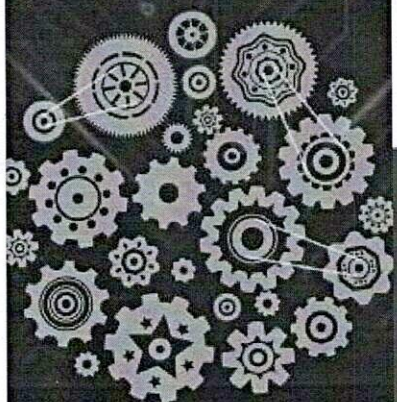
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CHEMISTRY

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DEVELOPMENT OF POLY (3,4-ETHYLENEDIOXYTHIOPHENE):POLYSTYRENE SULFONATE (PEDOT:PSS) AND GUAR GUM (GG) ELECTROLYTE FOR SUPERCAPACITOR

Sumana V. S.¹, Sudhakar Y.N.², Nagaraja G K³

¹Department of Chemistry, Srinivas Institute of Technology, Mangalore, India; sumanavs15@gmail.com

²Department of Chemistry, Manipal Institute of Technology, MAHE, Manipal, India; sudhakar.yn@manipal.edu

³Department of Chemistry, Mangalore University, Mangalagangothri, Konaje, India

nagarajazk@gmail.com

Biodegradable gel polymer electrolyte (GPE) was prepared using poly(3,4-ethylenedioxythiophene) polystyrene sulfonate and guar gum (GG). FTIR data for GPE showed that GG provides the mechanical support and PEDOT-PSS a conducting matrix to jelly guar gum due to presence of interaction between them. The ionic conductivity was studied to understand the electrode/electrolyte interface mechanism and it was found to be $1.1 \times 10^{-2} \text{ S cm}^{-1}$. Optimized GPE was used in the fabrication of supercapacitor and specific capacitance was determined. Consistent cyclic pattern during galvanostatic charge/discharge studies with 99% Columbic efficiency were observed.

KEYWORDS : Gel polymer electrolyte , supercapacitor

C-12

INDIRECT COMPLEXOMETRIC DETERMINATION OF MERCURY(II) USING 2,2' - BIPYRIDYL AS SELECTIVE MASKING AGENT

N. Gopalakrishna Bhat¹ & B. Narayana²

¹Professor & Head, Department of Chemistry, Srinivas Institute of Technology, Valachil Mangalore-574 143

² Professor, Department of Chemistry, Mangalore University, Mangalagangothri-571 199, Mangalore

E-mail:shreedakumar1@gmail.com

A complexometric method for the determination of mercury in the presence of other metal ions based on the selective masking ability of 2,2' - bipyridyl towards mercury is described. Mercury (II) present in a given sample solution is complexed with a known excess of EDTA and surplus EDTA is titrated against lead nitrate solution at pH 5-6 using xylenol orange as the indicator. A known excess of 2.5% solution of 2,2' - bipyridyl is then added. The mixture is then shaken well and the EDTA released from Hg-EDTA complex is titrated against the standard lead nitrate solution. Reproducible and accurate results are obtained for 8.24-82.4 mg of mercury (II) with relative error $\leq 0.24\%$ and standard deviations $\leq 0.12\text{mg}$. The interference of various ions are studied. This method was applied to the determination of mercury (II) in its alloys and complexes.

KEY WORDS: Complexometry, mercury (II) determination, masking, 2, 2' - bipyridyl

COLLEGE AUTOMATION APP

Prof. Ravishankar¹

AFNAN B K², AJEEB P³, ANIRUDH K⁴, KARTHIK N G⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology, Mangaluru, India

Abstract

College Automation App will manage the working of college activity using single platform. This software manages the information about various users including faculties, students and alimuni, information about subjects offered in various semesters; marks obtained by Students in different semesters, class attendance, placement system, virtual library so that their students can get all the information by using their valid registration id and password.

Faculties can get information of any students. Faculties can make any query by using grade, percentage, can see list of students who come under the category of attendance shortage and many more under one roof. For student section, they can get any particular teachers notes of particular day and other information regarding their campus such as placement session details, upcoming companies in particular month, their criteria, their venue detail and many more. Student session will also include learning session, so that students can prepare for their exams.

GRADING AND SORTING OF FRUITS AND VEGETABLES USING COMPUTER VISION AND IMAGE PROCESSING

Prof.Reshma B,¹

Anusha Shetty²,Bhumika B B³, J Janani⁴, Lara Ponnamma M B⁵

Assistant Professor¹,UG Scholars^{2,3,4,5}

Department of CSE,

Srinivas Institute of Technology Mangaluru, India

Abstract

Grading and Sorting of Fruits and Vegetables in agriculture science, automation increases the quality, economic growth and productivity of the country. The export market and quality evaluation are affected by assorting of fruits and vegetables. The crucial sensory characteristic of Fruits and Vegetables is appearance that impacts their market value, the consumer's preference and choice. Although, the Sorting and Grading can be done by human but it is inconsistent, time consuming, variable, subjective, onerous, expensive and easily influenced by surrounding. Hence, an accurate Fruits and Vegetables Grading and Sorting system is needed. Various algorithms for sorting and grading are done by various researchers using computer vision. Sorting and Grading of Fruits and Vegetables are essential for selling the products at a reasonable price. This proposed idea uses CNN algorithm to classify fruits.

FINANCIAL EMPOWERMENT AND PLANNING HELPER

Prof. Dr. ShivaPrasad¹
Bhavish S,² Abhilash D Naik,³ Dhanush,⁴ Dhanush K⁵
Assistant Professor¹, UG Scholars^{2,3,4,5}
Srinivas Institute of Technology Mangaluru, India

Abstract

This project aims to develop a solution for handling multiple loans efficiently with a loan prediction feature using ML algorithms, implemented through a user-friendly interface developed using Django. The system allows users to securely manage their bank accounts, view account details, and submit loan applications. The ML model is trained on loan data, including income, credit score, and other financial indicators, to predict loan eligibility. The Django based interface provides a seamless user experience for tracking loan application status, managing loan repayments, and receiving prediction results. This project empowers users with a comprehensive banking solution that leverages ML for accurate loan prediction and efficient account management.

OBJECT DETECTION IN VIDEO USING DEEP LEARNING

Prof. Padmanayana¹,
Anusha M K², Bhoomika D R³, Kavya⁴, Navyashree⁵
Assistant Professor¹, UG Scholars^{2,3,4,5}
Department of Computer Science,
Srinivas Institute of Technology, Mangaluru, India

Abstract

When we see any image, it is the work of our brain to instantly recognize the objects contained in it. But for the machine, object identification requires data training and more time. This computer vision field has become easier with the technological advancement in hardware resources based on deep learning. When we capture video stream of any moving object using a video camera then many difficulties and challenges will arise. Nowadays detecting objects in video streaming is adopted in security services to monitor sensitive areas including Highways, public places, and banks. Detecting objects in identifying other activities in the surrounding is an important part of a machine to interact with humans in a very easy manner and this is the capability of a machine that identifies a target. Our work is to focus on achieving more accuracy rate in object detection in videos. To achieve the same many approaches have been analyzed to detect objects in videos.

RICE PLANT LEAF DISEASE DETECTION WITH SMART PHONE APPLICATION

Prof. Shreeja M ¹

JYOTHI YALIGARA,² KEVIZONUO PIENYU,³ ABHIJNA ADARSH,⁴ NIVEDITHA K⁵

Assistant Professor¹,UG Scholars^{2,3,4,5}

Srinivas Institute of Technology ,Mangaluru, India

Abstract

Generally, the most important thing in agriculture that affects the quantity and quality of crops is plant diseases. In general, a farmer knows that his plant is attacked by a disease through direct vision. However, this process is sometimes inaccurate. With the development of machine learning technology, plant disease detection can be done automatically using deep learning. In this study, we report on a deep learning-based rice disease detection system that we have developed, which consists of a machine learning application on a cloud server and an application on a smartphone. The smartphone application functions to capture images of rice plant leaves, send them to the application on the cloud server, and receive classification results in the form of information on the types of plant diseases.

EARLY DETECTION OF ALZHEIMER'S DISEASE

Prof. Deepti P Dsouza¹,

AKHILA BHAT M V², ASHRITHA S³, KAVITA PATIL⁴, LAVANYA⁵

Assistant Professor¹,UG Scholars^{2,3,4,5}

Srinivas Institute of Technology, Mangaluru, India

Abstract

Alzheimer's disease is a degenerative brain disorder that results in cognitive decline, brain shrinkage, and ultimately, the demise of patients. Early detection of Alzheimer's disease is crucial in order to prevent and control its progression. Machine learning techniques, which leverage optimization and probabilistic methods, offer potential for diagnosing Alzheimer's disease. This study focuses on utilizing a deep learning approach called Convolutional Neural Networks (CNN) to classify patients into four categories: Non Demented, Very Mild Demented, Mild Demented, and Moderate Demented. The primary goal is to develop an effective machine learning model capable of detecting Alzheimer's disease in its early stages. This enables individuals to distinguish between normal brain aging and the onset of Alzheimer's disease at an early stage.

EMPLOY ME- PLACEMENT PREDICTION USING MACHINE LEARNING

Prof.Deeraj¹

Kushi Rai S B², Kirthika³, Lavanya A⁴, Fathimathul Fayiza⁵

Assistant Professor¹,UG Scholars^{2,3,4,5}

Srinivas Institute of Technology Mangaluru, India

Abstract

Our project's goal is to analyze the previous year's student data and utilize it to forecast current students' placement chances. To anticipate the same, this model is proposed utilizing the Random Forest method. Data for the study were acquired from the Srinivas Institute of Technology, and appropriate data-processing procedures were used. It assists students in laying a solid foundation for their future professional careers, and a successful placement record gives a college a competitive advantage in the education market.

The major goal of our project is to assist students in developing their skills and building a better career. After the prediction is completed, the students can receive a proposal to enhance their skills by providing a link to prepare for the aptitude and technical rounds, as well as the selection process of a company, in the same window.

GROW-N-KNOW

Prof. Aravind Naik¹ ⁴ ⁵
Deekshith Kumar ², Jeethesh,³ Karthik M S and Likith G
Assistant Professor,¹ UG Scholars,^{2,3,4,5}
Srinivas Institute of Technology, Mangaluru, India

Abstract

Agriculture has always been a critical sector in India, playing a significant role in the country's economy by providing employment opportunities and ensuring food security. Crop recommendation is an important process that involves selecting the most appropriate crop for a given region based on multiple factors such as soil type, climate, and water availability. The primary objective of crop recommendation is to enhance agricultural productivity and efficiency while minimizing negative environmental impacts. Recent technological advancements and data analysis have led to the development of more advanced and personalized crop recommendation systems that can improve crop yields, reduce waste, and promote sustainable agriculture. Fertilizers are essential for providing plants with the necessary nutrients required for their growth and development. Different types of fertilizers are available, each with its unique benefits and limitations. This abstract explores the role of fertilizers in plant growth and development, including the essential nutrients required by plants and how fertilizers can be used to provide them.

Plant diseases can significantly impact crop yields and food security, emphasizing the importance of early detection and diagnosis for effective management. In recent years, new tools and techniques have been developed for detecting plant diseases, leveraging technological advancements and data analysis. This project provides an overview of the various methods used to detect plant diseases, it introduces an image disease detection technique and provides relevant information on the disease as well as its prevention measures.

AR POWERED CAMPUS NAVIGATION APPLICATION

Prof. Harishishma¹

Akhil S R², Goutham M V³, Jaideep⁴, Nithin Kumar⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Department of Computer Science,

Srinivas Institute of Technology, Mangaluru, India

Abstract

Augmented Reality (AR) powered navigation is an emerging technology that overlays digital information onto the real-world environment, enhancing situational awareness and improving navigation. By utilizing a combination of computer vision and GPS technologies, AR-powered navigation provides users with real-time visual guidance, helping them navigate unfamiliar environments with greater ease. This technology has the potential to revolutionize the way people navigate and interact with their surroundings, making it ideal for applications such as tourism, hospital & college campus navigation.

This project uses its inbuilt characteristics to determine a person's position and provide the necessary navigation direction. The area of the project's prototype is a huge Campus, that would provide students and guests. It provides location finding features with help of AR elements .

PER PIXEL IMAGE SEGMENTATION TO CLASSIFY SALT SEGMENT

Prof. Aneesh Kumar¹
Hussain Rahiel², Mizal Ahammed P³, Muhammad Nawal B⁴, Muhammed Sinan S⁵
Assistant Professor¹, UG Scholars^{2,3,4,5}
Department of Computer Science,
Srinivas Institute of Technology, Mangaluru, India

Abstract

Salt segmentation is a crucial task in various applications, including oil and gas exploration and seismic imaging. In recent years, deep learning techniques have shown great promise in salt segmentation. In this project, we aim to provide a hands-on experience in building a deep learning model for salt segmentation using the UNet architecture in Python. We will cover the entire pipeline from importing necessary libraries, loading and preprocessing the dataset, building the UNet architecture, training the model, and evaluating its performance using various metrics. This project will equip learners with the skills required to build deep learning models for salt segmentation and other image segmentation tasks.

DETECTION OF PARKINSON'S DISEASE USING DRAWING TASKS

Prof. Anusha¹

ANDRU ALWIN DSOUZA,²CHIRAG S.R.³,G HARSHITH RAO,⁴ MARUTHI⁵

Assistant Professor,¹UG Scholars^{2,3,4,5}

Department of Computer Science and Engineering
Srinivas Institute of Technology, Mangaluru, India

Abstract

Parkinson's disease (PD) is a progressive neurodegenerative disorder that causes abnormal movements and an array of other symptoms. An accurate PD diagnosis can be a challenging task as the signs and symptoms, particularly at an early stage, can be similar to other medical conditions or the physiological changes of normal ageing. People suffering from Parkinson's Disease experience loss of motor control. It is identified as one of the most common symptoms of the disease and hence handwriting analysis can be used to detect and diagnose Parkinson disease patients. It has also been observed that handwriting impairment in Parkinson patients can be directly linked to severity of the disease. Therefore, detecting Parkinson disease at an early stage through handwriting analysis is possible.

AUTOMATED METERING INFRASTRUCTURE [AMI] USING IOT

Prof. Mamatha S ¹

Riya Lewis , Savan S Tilla³, Shama Maimona ⁴

Assistant Professor¹,UG Scholars^{2,3,4}

Department of Computer Science

Srinivas Institute of Technology Mangaluru, India

Abstract

IOT is used in the execution of this project. IOT, or the Internet of Things, refers to the overall network of interconnected devices as well as the technology that enables communication between them as well as with the cloud. Energy demand is rising as a result of both population growth and industrial development. Consumers need to be more conscious of their energy usage in order to increase energy efficiency. Utilities have recently begun creating new smart metres, also referred to as electronic energy metres. A smart metre is a digital energy metre that, in comparison to a regular energy metre, detects electrical energy use and gives additional information. The objective is to make it simple for both the consumer and the supplier to keep track of the energy. A crucial element of the smart grid, smart metres will enable greater interaction between consumers and providers. Real-time, two-way communication between consumers and the supplier will be made possible by smart metres. These devices also assist customers in lowering their electricity costs by alerting them when they exceed the permitted load. When this occurs, the power supply is instantly reset, saving the customer from paying penalty fees.

TEXT-TO-SPEECH AND SPEECH-TO-TEXT CONVERSION

Mrs. Mamatha² Mariyam Maḥsooma¹
PG Scholars,¹ Associate Professor²
Srinivas Institute of Technology, Mangaluru, India

Abstract

In the current business environment, progress depends on effective communication. Not just on a corporate level, but also on a personal level, it is crucial to convey information to the appropriate person and in the appropriate way. The globe and communication methods are both going towards digitization. In today's technologically advanced society, communication via phone calls, emails, text messages, and other channels has become essential. Many applications that function as a mediator and aid in efficiently transmitting messages in the form of text or audio signals over miles of networks have emerged in order to fulfil the objective of effective communication between two parties without obstacles. In the majority of these applications, features like articulatory and acoustic-based speech recognition, Language translation is just one of several conversions that can be done, including from speech signals to text and from text to artificial speech signals. In this review paper, we'll look at several methods and strategies used to accomplish the aforementioned capabilities.

GENDER RECOGNITION FROM SPEECH

Samseena K S¹, Mrs. Reshma B²
Assistant Professor², PG Scholars¹

Srinivas Institute of Technology, Mangaluru, India

Abstract

The speech that makes up a human voice consist of many paralinguistic information .The process of determining gender from the given voice is considered to be one of the crucial aspects and is not without its challenges .The necessary features to be used for creating a model from a training set have been determined using a series of procedures in order to discern gender from a voice signal .The proposed model can be used to identify a vocal signal's gender (i.e, whether it is male or female).The contributions are divided into three categories :(i)providing information about the known voice signal features using a well known dataset ; (ii)researching various machine learning models of different families to classify the voice gender and (iii) employing a well known feature selection technique to identify functionally ideal features for enhancing classification models .The experimental findings highlight the superior significance of sub features over others , which is essential for improving the performance of classification models.

STEGANOGRAPHY USING IMAGE

Rajeshwari ¹, Mrs. Deepti DSouza²
Assistant Professor,²PG Scholars ¹
Department of MCA

Srinivas Institute of Technology ,Mangaluru,Karnataka,India

Abstract

Image process could be a methodology to perform some operations on a picture, so as to induce Associate in Nursing increased image or to extract some helpful data from it. it's a kind of signal process within which input is a picture and output might bean image or characteristics/features related to that image. Image process tools include: OpenCv, Scikit Image, Numpy. A Generative Adversarial Network (GAN) is essentially wont to learn the extracted representations and any animate the photographs. the most object of our methodology is to create our framework additional governable and adjusting. Generative modeling is Associate in Nursing unattended learning task in machine learning that involves mechanically discovering and learning the regularities or patterns in input file in such how that the model may be wont to generate or output new examples that credibly might are drawn from the first dataset. OpenCV is Associate in Nursing ASCII text file python library used for pc vision and machine learning. it's principally geared toward time period pc vision and image process. it's wont to perform different operations on pictures that rework them victimization different techniques. Numpy could be a library for scientific computing in Python. It provides a superior flat array object and tools for operating with these arrays. A NumPy array is analogous to an inventory. we are able to solid an inventory to a NumPy array by first importation it. Numpy arrays contain information of a similar type; we are able to use the attribute "dtype" to get the info style of the array's components. The algorithms utilized in image process area unit morphological Image process, mathematician Image process, Fourier rework in image process, Convolution Neural, Edge Detection in image process, rippling Image process.



MEDLEARN 360°

Prof. Ravishankara K,¹
NIKHIL P LADWA², PRATHEEK V A,³ VARSHA M,⁴ VIGNESH H E⁵
Assistant Professor¹,UG Scholars^{2,3,4,5}
Srinivas Institute of Technology, Mangaluru, India

Abstract

The project uses Deep Learning with the convolution neural network model for image recognition and advanced 3D rendering software. With AR, classroom education can be extraordinary and more interactive, as AR can enable teachers to show virtual examples of concepts and add gaming elements to provide textbook material support. This will enable students to learn faster and memorize information. AR is increasingly being adopted in educational settings, often to help students with complicated subjects. For example, students struggling with geometry can use AR to see and manipulate 3D geometric forms. Another application of augmented reality in education includes teaching global perspectives through virtual field trips, enabling students to interactively engage with other cultures.

Area of Project: Deep learning, Augmented reality

COLOR AND OBJECT DETECTION OF IMAGE

Deeksha. J.¹ Mr. Ravishankara K²
PG Scholars,¹ Associate Professor²

Srinivas Institute of Technology, Mangaluru, India

Abstract

Color detection is an effort to carry out the explicit technique to distinguish between several shades of the same exact color. Studies in the sciences indicate that a typical, healthy individual can recognize and differentiate nearly one million nuances in color. However, it is impossible for someone who has being "enchroma". A painter must have the ability to recognize different color patterns precisely to make realistic images.

Widespread use of Object Detection in the industry at the moment. It is a technique for detecting and forming genuine items. Despite the availability of numerous detection techniques, the precision, speed, and effectiveness of detection are not sufficient. As a result, this paper demonstrates real-time identification utilizing deep learning techniques and the YOLOv3 algorithm. It starts by setting expectations across three different scales. The identification layer is used to create identification at highlight maps of three different sizes, each having a step size of 32, 16, or 8. This suggests that we will generally place on scales of 13 x 13, 26 x 26, and 52 x 52 with partner contribution of 416 x 416. The paired cross-entropy error is used to predict the classes that the bounding box may include, the certainty is established, and then the prediction is made. It also uses strategic relapse to predict the jumping box article score.

GENDER RECOGNITION FROM SPEECH

Samseena K S¹, Mrs. Reshma B²
Assistant Professor², PG Scholars¹
Srinivas Institute of Technology, Mangaluru, India

Abstract

The speech that makes up a human voice consist of many paralinguistic information .The process of determining gender from the given voice is considered to be one of the crucial aspects and is not without its challenges .The necessary features to be used for creating a model from a training set have been determined using a series of procedures in order to discern gender from a voice signal .The proposed model can be used to identify a vocal signal's gender (i.e, whether it is male or female).The contributions are divided into three categories :(i)providing information about the known voice signal features using a well known dataset ; (ii)researching various machine learning models of different families to classify the voice gender and (iii) employing a well known feature selection technique to identify functionally ideal features for enhancing classification models .The experimental findings highlight the superior significance of sub features over others , which is essential for improving the performance of classification models.

CREDIT CARD FRAUD DETECTION USING MACHINE LEARNING

Mr. Sudheesh KP,¹
MOIDEEN AFSAL PK,² HARIKRISHNA V,³ MUHAMMAD SHUJAH,⁴
HAZARATH HUSAIN⁵

Assistant Professor¹,UG Scholars^{2,3,4,5}
Srinivas Institute of Technology, Mangaluru, India

Abstract

Credit card frauds are easy and friendly targets. Credit card fraud has existed ever since credit cards were introduced, resulting in financial losses, identity theft, severe security threat as, and misuse of personal information E-commerce and many other online sites have increased the online payment modes, increasing the risk for online frauds. Increase in fraud rates, researchers started using different machine learning methods to detect and analyze frauds in online transactions. Machine learning plays a vital role for detecting the credit card fraud in the transactions. The performance of fraud detecting in credit card transactions is greatly affected by the sampling approach on dataset. The main aim is to design and develop a novel fraud detection method using Machine Learning with an objective, to analyze the past transaction details of the customers and extract the behavioral patterns.

COLOR AND OBJECT DETECTION OF IMAGE

Deeksha. J.¹ Mr. Ravishankara K.²
PG Scholars,¹ Associate Professor²
Srinivas Institute of Technology, Mangaluru, India

Abstract

Color detection is an effort to carry out the explicit technique to distinguish between several shades of the same exact color. Studies in the sciences indicate that a typical, healthy individual can recognize and differentiate nearly one million nuances in color. However, it is impossible for someone who has being "enchroma". A painter must have the ability to recognize different color patterns precisely to make realistic images.

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CARTOONIFY AN IMAGE

Shreekshitha ¹, Shreeja M ²
Assistant Professor,² PG Scholars¹
Department of MCA

Srinivas Institute of Technology ,Mangaluru,Karnataka,India

Abstract

Image process could be a methodology to perform some operations on a picture, so as to induce Associate in Nursing increased image or to extract some helpful data from it. it's a kind of signal process within which input is a picture and output might bean image or characteristics/features related to that image. Image process tools include: OpenCv, Scikit Image, Numpy. A Generative Adversarial Network (GAN) is essentially wont to learn the extracted representations and any animate the photographs. the most object of our methodology is to create our framework additional governable and adjusting. Generative modeling is Associate in Nursing unattended learning task in machine learning that involves mechanically discovering and learning the regularities or patterns in input file in such how that the model may be wont to generate or output new examples that credibly might are drawn from the first dataset. OpenCV is Associate in Nursing ASCII text file python library used for pc vision and machine learning. it's principally geared toward time period pc vision and image process. it's wont to perform different operations on pictures that rework them victimization different techniques. Numpy could be a library for scientific computing in Python. It provides a superior flat array object and tools for operating with these arrays. A NumPy array is analogous to an inventory. we are able to solid an inventory to a NumPy array by first importation it. Numpy arrays contain information of a similar type; we are able to use the attribute "dtype" to get the info style of the array's components. The algorithms utilized in image process area unit morphological Image process, mathematician Image process, Fourier rework in image process, Convolution Neural, Edge Detection in image process, rippling Image process.

WEB APPLICATION FIREWALL

Prof. Aravind Naik¹

Nikhil Kashyap H R,² Saiprasad³ S, Srivatsa S V⁴

Assistant Professor,¹ UG Scholars,^{2,3,4}

Srinivas Institute of Technology, Mangaluru, India

Abstract

A Web Application Firewall(WAF) is a specific form of application firewall that filters, monitors, and blocks HTTP traffic to and from a web service. An application firewall is a form of firewall that controls input/output or system calls of an application or service. It operates by monitoring and blocking communications based on a configured policy, generally with predefined rule sets to choose from. The application firewall can control communications up to the application layer of the OSI model, which is the highest operating layer, and where it gets its name. The two primary categories of application firewalls are network-based and host-based.

This project provides a security solution that monitors and filters incoming online traffic to assist safeguard web applications. In order to detect and stop harmful traffic, including attacks like SQL injection, cross-site scripting, and file inclusion, it sits in between the web application and the internet and analyses the data that is sent between them. In addition to integrating with other security tools, WAFs can be installed as an on-premises or cloud-based solution, offering a complete security solution for online applications. Organizations can lower the risk of data breaches, satisfy regulatory obligations, and enhance the performance and availability of their web services by putting a WAF in place.

VIRTUAL TEACHING BOARD USING COMPUTER VISION

Prof. Daya Naik¹

Sushanth,² Praneeth Shetty,³ Shashank K A,⁴ Ramith⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Department of Computer Science,
Srinivas Institute of Technology, Mangaluru, India

Abstract

In the software industry many whiteboard software are available. Each of them has its own pros and cons. One of the main disadvantages of these whiteboard software is the need of accurate pointing devices. Here we introduce the Smart virtual Board, which is a hand movements based writing software. It uses the hand movements for writing. User doesn't need an external hardware pointing device to draw. Instead the different hand movements of the fingertips are used for writing purposes. We designed this system as a primary level software product. The software can be further upgraded by improving the current features. The disadvantage of the traditional writing software is that they use traditional writing devices like mouse light, pens etc. Now it overcomes by Computer vision technology. The next evolutionary technology that will take over the world will be the hand movement technology. By using hand movements for communicating with system.

DETECTION OF PHISHING WEBSITE

¹
Prof. Padmanayan

Sourabha², Niveditha³, Ranjita B Hugar⁴, Shweta Prakash Bhat⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Department of Computer Science,

Srinivas Institute of Technology, Mangaluru, India

Abstract

Online shoppers frequently utilise a variety of websites to pay for their purchases. Many websites require users to provide private information, including their login, password, or credit card information, frequently with malevolent intent. Phishing websites are the term for these kind of websites. This research suggests a clever, adaptable, and powerful system that is built on utilising classification Machine Learning algorithm to detect and forecast phishing websites. This research uses extraction methods and classification algorithms to categorise the legitimacy of the phishing data sets. In the final phishing detection rate, the phishing website may be identified based on certain significant characteristics like URL and Domain Identity, security and encryption requirements, and other factors. To add new keywords to the database, the system uses machine learning. For the chosen dataset, the random forest classifier offers the highest accuracy

LIVE HUMAN DETECTION USING GPS

¹ Rachana P, ² Reethu H G, ³ Sinchana Shetty, ⁴ K B Tejaswin, ⁵ Dr. Rajesh D.S
UG Scholar, ^{1,2,3,4} Professor ⁵
Department of CSE,
Srinivas Institute of Technology, Mangalore, India

Abstract

In the realm of computer vision, the recognition of an item like a human is crucial for comprehending images. A wide range of applications in intelligent systems can benefit from human detection in photos, Deep learning, which has rapidly developed and achieved exceptional success in numerous object detection implementations, is used in this study to detect humans. Several embedded systems have recently become popular as Using the graphics processing unit (GPU), powerful computer platforms offer significant processing capacities. The goal of this paper is to present a thorough overview of the most recent developments in this subject by utilising deep learning methods in embedded platforms. As a low power system created to speed up deep learning applications, NVIDIA Jetson was chosen. The effectiveness of human detection models on edge computing, including PedNet, multyped, SSD MobileNet VI, SSD MobileNet V2, and SSD Inception V2, is highlighted in this review. This survey gives an overview of different techniques and contrasts how well they work for real-time applications in terms of precision and computing time. The testing findings demonstrate that, when compared to other models in our video datasets with various circumstances, the SSD MobileNet V2 model offers the highest accuracy with the quickest calculation time.

CROWD MONITORING

Prof. Dr. Rajesh D.S¹

Shravyashree², Tejaswini U³, Shravya⁴

Assistant Professor¹, UG Scholars^{2,3,4}

Srinivas Institute of Technology Mangaluru, India

Abstract

Crowd monitoring plays a crucial role in ensuring public safety and security in various domains, including transportation hubs, stadiums, public gatherings, and urban areas. With the advent of advanced image processing techniques and the increasing availability of high-resolution cameras, the use of computer vision algorithms for crowd monitoring has gained significant attention. This abstract presents an overview of a crowd monitoring system that employs image processing techniques to analyze crowd behavior, density, and anomalies for effective crowd management.

The proposed system utilizes video footage captured by surveillance cameras in real-time and applies a series of image processing algorithms to extract meaningful information about the crowd. First, an object detection algorithm is employed to detect and track individual persons within the scene. Subsequently, crowd density estimation techniques are employed to analyze the distribution and movement patterns of the detected individuals. By considering factors such as the distance between individuals and their trajectories, crowd density maps are generated to visualize areas of high congestion and potential bottlenecks. Furthermore, the system incorporates anomaly detection algorithms to identify unusual events or behaviors within the crowd, such as overcrowding, fights, or suspicious activities. By comparing the current crowd state with predefined normal behavior patterns, the system can trigger alerts and notify security personnel about potential threats or critical situations that require immediate attention.

TECHNOLOGY TO HELP VISUALLY IMPAIRED

Prof. Dr. ShivaPrasad¹

Thaker Vraj Jayesh², Sabhanaaz³, Pratik Pradeep Naik⁴, Nishanth⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology Mangaluru, India

Abstract

Most blind users cannot afford specialized software such as screen reading access to help them read because it is difficult and expensive to install. The digital revolution has not affected everyone equally. In a world where the next great invention is expected to appear soon, blind and visually impaired people have been left behind. Blindness is a general term used for the condition of a person who suffers from an impairment or obstruction in the sense of vision. According to the degree of disability, the blind people's are divided into two: completely blind and those who still have some vision (Low Vision). Due to the loss/reduction of the sensory function of sight, blind searchers maximize other sensory functions such as touch, smell and hearing. We have found a solution to these problems to help visually impaired people through a mobile application. This mobile application can help blind people with their daily routine which may include object detection or navigation to a destination etc.

RECIPE GENERATOR USING FOOD IMAGES

Dr.ShivaPrasad ¹

Revathi C², Shreyas U³, Sindhu Hiremath⁴, Sumanth Udupa⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology Mangaluru, India

Abstract

People enjoy food photography because they appreciate food. Behind each meal there is a story described in a complex recipe and unfortunately, by simply looking at a food image we do not have access to its preparation process. Therefore, in this paper we introduce an inverse cooking system that recreates cooking recipes from given food images. Our system predicts ingredients as sets by means of a novel architecture, modeling their dependencies without imposing any order, and then generates cooking instructions by attending to both image and its inferred ingredients simultaneously. We extensively evaluate the whole system on the large-scale Recipe 1 Million dataset and show that (1) we improve performance with respect to previous baselines for ingredient prediction (2) we are able to obtain high quality recipes by leveraging both image and ingredients (3) our system is able to produce more compelling recipes than retrieval based approaches according to human judgement. We make code and models publicly available one.

MUSIC APP BY FACIAL RECOGNITION

Prof. Anish NK¹

Harish Kizhakke Valappil², Praneeth Kumar³, Navaneeth⁴, PRANAV YADAV A K⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Department of Computer Science,

Srinivas Institute of Technology, Mangaluru, India

Abstract

Music player is an application that runs based on the idea that we can detect a person's mood based on the expression on his face. The expression on the face is detected using convoluted neural networks (CNN). The set of images is taken from the camera of the device and these images are given to a pre-trained CNN which returns facial expression to application. Based on facial expression a song playlist is suggested. This is an additional feature of the existing feature of a music player. Usually facial expression changes within seconds and not consistent so it may lead to wrong playlist suggestion to overcome this problem application collects N number of images when the application is started and takes facial expression which has appeared the maximum number of times.

ABOUT ICTIR-2023 AND CALL FOR PAPERS

The aim of this hybrid mode conference is to create a platform to foster thinking and innovation in technology and maintain the competence of the profession. Industry 4.0 revolution is evolving exponentially and its extensive domain knowledge will help us to leverage solutions in every growing industry today. The conference intends to have deliberations on advanced topics belonging to Electronics, Computer Science, Electrical and Applications in different Engineering domains that are very much relevant to Industry 4.0 revolution. The conference will be conducted in a hybrid mode i.e. online and offline. Original papers (not submitted/published elsewhere) are invited on the below mentioned (but not limited) topics.

- Internet of Things(IoT)
- Robotics and Automation
- Machine Learning and Deep Learning
- Cloud Computing
- Signal Processing
- 5G Communication
- Advanced Embedded System and VLSI
- Sensor Technology, Power Management, and Security Management
- Big Data and Blockchain
- Renewable Energy Resources
- Any product based startup work

WHO CAN PARTICIPATE?

Research scholars, PG scholars, UG students, Academician and Industrial experts who can share their expertise in the relevant research field in the form of presentation and publication. Research, Reviews, and other upcoming technical articles in the respective fields are also welcome.

ABOUT SIT, MANGALORE

Srinivas Institute of Technology (SIT) is one of the premier Engineering colleges of the Mangaluru region aiming towards high standards of education with a holistic approach. SIT is recognized by AICTE, affiliated to VTU and accredited by NAAC. The Institute started in the year 2006 which is a unit of A.Shama Rao Foundation, Mangaluru. The college is located at the Srinivas Campus spread over 15 acres of land at Valachil, Arkula Village, about 10kms from Mangaluru city, towards BC Road, adjacent to NH66. The institute hosts 3000 plus students studying under 13 UG programs, 5 PG programs and 6 Research Centres.

VISION OF THE DEPARTMENT

To be a centre of excellence in Electronics and Communication Engineering with quality education and research, responsive to the needs of industry and society.

MISSION OF THE DEPARTMENT

To achieve academic excellence through innovative teaching-learning practice, by providing a conducive research environment, industry-institute interaction and skill development, leading to professionals with ethical values and social responsibilities.

ABOUT THE ECE DEPARTMENT

The Department of "Electronics and Communication Engineering" offers B.E. program and M.Tech in Digital Electronics also recognized as an R&D center affiliated by Visveswaraya Technological University, Belgavi. The department of ECE has state-of-the-art laboratory facilities, well supported by qualified and dedicated faculty. The department has a Start-up "Shreem" Technologies which provides consultancy projects and services. Several student projects have been funded by KSCST. The department regularly conducts hands-on workshops and industrial visits to bridge the gap between academia and Industrial needs. Department organises training program for the student on the latest topics such as Cyber Security, Microsoft Azure, HTML etc in association with Ethnotech, Bangalore.



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Prof. Gourish S Hegde

Dept. of Electronics & Communication Engineering
Mobile : +91 9448381335,
hegdegourish_ec@sitmng.ac.in

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- Abstract of the Original paper (not submitted/published elsewhere) with not more than 750 words are invited on the above-mentioned (but not limited) topics. Abstract should brief on introduction, work, results and novelty in the work.
- Submit the Abstract of the Paper to sitcedep@sitmng.ac.in

- The authors of the accepted abstracts are required to submit the Full-Length Paper, adhering to the plagiarism policies of the publishers to sitcedep@sitmng.ac.in
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- Manuscripts of the papers in the prescribed electronic format must be submitted to sitcedep@sitmng.ac.in

- Guidelines along with the format for full-length paper submission are available on the conference website www.ictir.sitmng.ac.in

IMPORTANT DATES

- Last date for submission of Abstract : 21-4-2023
- Notification of Abstract Acceptance after review : 2-5-2023
- Submission of Full length paper - camera ready : 20-5-2023
- Last Date for Registration : 30-5-2023
- Date of Conference : 8-6-2023 and 9-6-2023

REGISTRATION LINK

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UG/PG Students	: Rs. 1200/-
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FOR QUERIES

Mrs. Marina Chandy
Associate Professor, Dept. of ECE
Mob: +91 98458 40745

Mrs. Deeksha
Assistant Professor, Dept. of ECE
Mob: +91 89716 41488

Mr. Clitus Neil D'Souza
Assistant Professor, Dept. of ECE
Mob: +91 99449 90816

CONTACT US

Prof. Gourish S Hegde
Srinivas Institute of Technology
Merlapadavu, Valachil, Farangipete Post, Mangaluru - 574143
Call Us @: +91 9448381335
Email: hegdegourish_ec@sitmng.ac.in
Website: ictir.sitmng.ac.in

International Conference on
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BOOK OF ABSTRACTS

08-09, June 2023
Srinivas Institute Of Technology
Mangaluru, Karnataka, India



P-19

MINI PORTABLE REFRIGERATOR

Ziyad, Steephan, Adnan, Rakesh Mallya, Satish Kumar K, Department of Electronics and Communication Engineering, Srinivas Institute of Technology, Mangaluru.

ABSTRACT: The mini portable refrigerator is a compact cooling device designed to provide convenient and reliable refrigeration on-the-go. The project aims to create a refrigerator that can be easily transported and operated in various environments, including camping trips, road trips, and outdoor events. The device utilizes thermoelectric cooling technology to maintain a consistent temperature, and is powered by a rechargeable battery, making it eco-friendly and cost-effective. The design includes a compact insulated container with adjustable shelves and a temperature control system that can be adjusted according to the user's preferences. This project offers a practical and convenient solution for individuals who require portable refrigeration in their daily lives. Refrigerators in almost the sizes are available at the market but they are restricted and limited for indoor usage only as they require electricity and are large. But presently, people are inclined towards artificial activities and they need to have a refrigerator to keep the essential items saved from spoilage and wastage. So, this project has designed a mini refrigerator that is powered through the batteries and is portable which can be easily used outdoors as well.

P-11

E-COMMERCE WEBSITE USING BLOCK CHAIN TECHNOLOGY

Akshay, Shruthi K, Sumanth G, Vanitha D ,Mrs.Sahana Girish Kunder
Department of Electronics and Communication Engineering ,Srinivas Institute
of Technology, Mangaluru.

ABSTRACT: In today's digital age online shopping has become increasingly popular among consumers. With our ecommerce website platform we aim to meet the growing demand for convenient and secure online shopping. And our website provides a online platform that brings both buyers and sellers under a single space. Here buyers can deploy their products easily just by creating a seller account. By this way they can reach out to more customers.

Our ecommerce website has been designed with the user in mind, featuring a modern and visually appealing interface that makes shopping both easy and enjoyable. Backend code is written in JavaScript using the Express.js framework, and it is responsible for handling HTTP requests and responses in a web application. The code also utilizes several third-party libraries to perform various tasks such as password encryption, working with AWS S3, sending emails, and interacting with the Firebase Fire store database.

One of the key features of our platform is our support for both traditional payment methods and crypto currency payments. By offering crypto currency payments, we aim to provide our customers with increased privacy and faster transaction times, while also expanding our reach to a wider audience.

P-22

REMOTE CONTROL SYSTEM THAT ENABLES WIRELESS PHOTOGRAPHY AND VIDEO RECORDING USING AN ANDROID PHONE AND A WI-FI NETWORK

Rachana R , Rachana Shetty , Sharvani , Shivali Savant , Mrs. Flavita Pinto ,
Department of Electronics and Communication Engineering, Srinivas Institute
of Technology, Mangaluru.

ABSTRACT: Remote control system that enables wireless photography and video recording using an Android phone and a Wi-Fi network. The proposed system consists of an Android application, a microcontroller, a Wi-Fi module, and a camera. The Android application allows the user to remotely control the camera's focus, zoom, and shutter using their phone's touchscreen. The microcontroller esp32 and Wi-Fi module are used to establish a wireless connection between the camera and the Android phone to capture the images and can be send to our mobile phone. The ESP32-CAM is programmed to send signals to the servo motors, which rotate the camera in the desired direction. The ESP32-CAM board is connected to a power supply and to the servo motors via jumper wires and a breadboard. The board is programmed using Arduino IDE to control the servo motors. The code sets the initial positions of the servo motors, and creates a control interface for the pan-tilt movements. The control interface is accessed through mobile device connected to the same network as the ESP32-CAM. The ESP32-CAM continuously receives signals from the control interface and sends corresponding signals to the servo motors, allowing the user to move the camera in any direction. The system also supports video recording and live preview of the camera's viewfinder on the Android phone's

P-15

GHEE MAKING MACHINE

Abdul Hashir , Mohammad Fuad , Prajan L P Sanath Kumar , Mrs. Nagalakshmi B Naik Department of Electronics and Communication Engineering ,Srinivas Institute Of Technology, Mangaluru.

ABSTRACT: A ghee making machine is a device designed to facilitate the process of making ghee. Ghee is a type of clarified butter commonly used in Indian cuisine. There are various types of ghee making machines available in the market, ranging from small household appliances to larger industrial scale equipment. The basic functioning of a ghee making machine involves heating butter in a vessel or tank, separating the milk solids from the liquid fat (clarification), and filtering the pure ghee through a fine mesh or cloth. Some machines also come with features such as automatic stirring, temperature control, and in-built filtration systems. While a ghee making machine can save time and effort compared to traditional methods of making ghee, it is important to note that the quality of the final product depends on the quality of the butter used and the skill of the operator. Sensors and microcontroller based automated intelligent ghee making unit will greatly add technology to the individual kitchen. The proposed unit will increase the quality of ghee prepared and ensure uniform ghee. It is also cost effective so that unit can be greatly accepted by individual kitchens, especially in India.

P-06

CHATBOT FOR COLLEGE CAMPUS

Likhitha A S, M Smitha Poojary, Rachana H, M, Shruthi R K ,Clitus Neil D Souza Department of Electronics and Communication Engineering ,Srinivas Institute of Technology,Mangaluru.

ABSTRACT: This paper proposes the development of a Chatbot for a college campus using Python programming language to enhance communication and accessibility between students, parents, faculty, and staff. The Chatbot is built using natural language processing (NLP) techniques and is trained on a dataset of frequently asked questions and information about the campus. The development of the Chatbot can be divided into four main stages: data collection, preprocessing, model development, and deployment. The first stage is to gather a large dataset of frequently asked questions and answers from students, parents, faculty, and staff. The pre-processed data is then used to train a Chatbot model using NLP techniques. The model can be built using various Python tools and frameworks like Tensor Flow and Keras. The Chatbot can be deployed on the college campus's website or social media platforms using Python web frameworks like Flask. The effectiveness of the Chatbot can be evaluated through user feedback. The implementation of the Chatbot using Python will improve the overall efficiency of communication on the campus and reduce the workload of administrative staff. The Chatbot will provide students with a personalized and convenient way to access the information they need. The Chatbot for a college campus using Python is a step towards a more connected and accessible campus communication

P-04

ATTENDANCE USING GPS AND SELFIE

Bhavyashree Vijayakumar, Sooraj M P, Deeksha, Department of Electronics and Communication Engineering, Srinivas Institute of Technology, Mangaluru.

ABSTRACT: In an organization there are several departments and each department has attendance section to manage attendance activities. Each section must perform necessary operations like data collection and preparation, entry, updates monitoring and reporting of data. The bang in the capabilities and features of mobile devices, like Smartphone's, tablets, and wearable's, combined with the ubiquitous and affordable Internet access and the advances in the areas of cooperative networking. Public want to get their things done as quickly as possible. They want effortless and fast access to each and everything. The task of processing the attendance of an employee manually is very tedious and time consuming. Processing the attendance of an employee is a very tedious job if done manually and may even more time-consuming process. To overcome this process introduced the Attendance Register with GPS Tracking and image.

P-16

GPS BASED TRACKING OF LOCATION AND PROVIDING MEDICAL ASSISTANCE USING UAV

Gouri N B ,Shubham B K, Omkar P N , Vivek A, Mrs.Marina Chandy
Department of Electronics and Communication Engineering, Srinivas Institute
of Technology, Mangaluru.

ABSTRACT: The combination of Raspberry Pi and Pixhawk in the field of drone technology offers a versatile and powerful platform for developing advanced applications such as GPS tracking and mission planning. This paper explores the capabilities of Raspberry Pi and Pixhawk, their integration, and the programming aspects involved in developing a GPS tracking system for drones. It also discusses how this combination can be used for mission planning, including waypoint navigation, altitude and speed control, and real-time telemetry data. The potential applications of this technology, benefits, and challenges are highlighted, along with an overview of existing research and projects. There is a lot of traffic nowadays and there are also some places like hill areas or remote areas so our project is mainly to provide medical assistance in such areas where there is no way for common vehicles to reach. The abstract emphasizes the significance of the Raspberry Pi and Pixhawk combination in advancing the field of drone technology, with potential for wide-ranging applications in various industries.

P-18

IoT BASED FRUITS AND VEGETABLES STORAGE MONITORING AND MACHINE LEARNING BASED SHELF- LIFE AND DISEASE DETECTION SYSTEM

Akash A M, Sanjana H H , Thrupthi P R , Vandana A ,Gourish Hegde
Department of Electronics and Communication Engineering, Srinivas Institute
Of Technology, Mangaluru.

ABSTRACT: Fruits and vegetables are an essential part of our daily diet, providing vital nutrients and vitamins. However, they are susceptible to various diseases and have a limited shelf life, which can affect their quality and safety. Early disease detection and accurate shelf-life prediction are crucial for minimizing food waste and ensuring consumer satisfaction. To address these issues, we propose a novel approach for disease detection and shelf-life prediction of fruits using Convolutional Neural Networks (CNN) on Raspberry Pi, integrated with the DHT-11 sensor for temperature and humidity monitoring. The system will ensure the safety and quality of the produce by monitoring the temperature and humidity of the storage environment using a DHT11 sensor and predicting the shelf life and detecting diseases using Convolutional Neural Network (CNN) algorithms. The proposed system's primary benefit is that it will provide realtime monitoring of the storage environment, enabling the early detection of any changes in temperature or humidity that could impact the quality of the produce. Additionally, by predicting the shelf life of the produce accurately and detecting any diseases, the system can help reduce food waste, prevent spoilage, and improve the quality and safety of fruits and vegetables, ensuring that they are fit for human consumption.

P-11

E-COMMERCE WEBSITE USING BLOCK CHAIN TECHNOLOGY

Akshay, Shruthi K, Sumanth G, Vanitha D ,Mrs.Sahana Girish Kunder
Department of Electronics and Communication Engineering ,Srinivas Institute
of Technology, Mangaluru.

ABSTRACT: In today's digital age online shopping has become increasingly popular among consumers. With our ecommerce website platform we aim to meet the growing demand for convenient and secure online shopping. And our website provides a online platform that brings both buyers and sellers under a single space. Here buyers can deploy their products easily just by creating a seller account. By this way they can reach out to more customers.

Our ecommerce website has been designed with the user in mind, featuring a modern and visually appealing interface that makes shopping both easy and enjoyable. Backend code is written in JavaScript using the Express.js framework, and it is responsible for handling HTTP requests and responses in a web application. The code also utilizes several third-party libraries to perform various tasks such as password encryption, working with AWS S3, sending emails, and interacting with the Firebase Fire store database.

One of the key features of our platform is our support for both traditional payment methods and crypto currency payments. By offering crypto currency payments, we aim to provide our customers with increased privacy and faster transaction times, while also expanding our reach to a wider audience.

P-22

REMOTE CONTROL SYSTEM THAT ENABLES WIRELESS PHOTOGRAPHY AND VIDEO RECORDING USING AN ANDROID PHONE AND A WI-FI NETWORK

Rachana R , Rachana Shetty , Sharvani , Shivali Savant , Mrs. Flavita Pinto ,
Department of Electronics and Communication Engineering, Srinivas Institute
of Technology, Mangaluru.

ABSTRACT: Remote control system that enables wireless photography and video recording using an Android phone and a Wi-Fi network. The proposed system consists of an Android application, a microcontroller, a Wi-Fi module, and a camera. The Android application allows the user to remotely control the camera's focus, zoom, and shutter using their phone's touchscreen. The microcontroller esp32 and Wi-Fi module are used to establish a wireless connection between the camera and the Android phone to capture the images and can be send to our mobile phone. The ESP32-CAM is programmed to send signals to the servo motors, which rotate the camera in the desired direction. The ESP32-CAM board is connected to a power supply and to the servo motors via jumper wires and a breadboard. The board is programmed using Arduino IDE to control the servo motors. The code sets the initial positions of the servo motors, and creates a control interface for the pan-tilt movements. The control interface is accessed through mobile device connected to the same network as the ESP32-CAM. The ESP32-CAM continuously receives signals from the control interface and sends corresponding signals to the servo motors, allowing the user to move the camera in any direction. The system also supports video recording and live preview of the camera's viewfinder on the Android phone's

TINYML IMPLEMENTATION TO RECOGNIZE GESTURES USING TENSORFLOW LITE FOR MICROCONTROLLERS

Prof. Lokesh B¹, Suman², Sagar³
Professor,¹ PG Scholars^{2,3}

Srinivas Institute of Technology, Mangaluru, India

Abstract

TensorFlow Lite for Microcontrollers is designed to run machine learning models on microcontrollers and other devices with only a few kilobytes of memory. By bringing machine learning to tiny microcontrollers, we can boost the intelligence of billions of devices that we use in our lives, including household appliances and Internet of Things devices, without relying on expensive hardware or reliable internet connections, which is often subject to bandwidth and power constraints and results in high latency. This can also help preserve privacy, since no data leaves the device. We capture motion data using the on-board IMU at 119Hz, outputting CSV format data over USB, and then importing it into TensorFlow to train a model. TensorFlow model thus obtained is converted into TensorFlow Lite format using TensorFlow Lite converter which applies optimizations aimed at reducing size of the model and helping it run faster without sacrificing performance. Finally the resulting classifier is deployed onto the board. Google Colab is used to train the machine learning model. The model.h file finally generated is downloaded and include in our gesture classifier. The confidence of each gesture is printed to the Serial Monitor (0 = low confidence, 1 = high confidence).

Blockchain-Enabled Sustainable Waste Management: A Path to a Greener Future

*Sowmya, Assistant Professor, Information Science & Engineering Department, Srinivas Institute of Technology, Mangalore, Karnataka. E-mail: sowmyakulal@sitmng.ac.in

K. Sudarshan, Associate Professor & Head, Information Science & Engineering Department, Srinivas Institute of Technology, Mangalore, Karnataka. E-mail: krsudarshan@sitmng.ac.in

Abstract--- Waste management is a significant environmental challenge that requires innovative solutions to achieve sustainability. The global waste and resource crises necessitate and give great incitement for better and more sustainable management of waste. Increasingly, resource and waste streams that once were sent to landfill or incinerated are now reused, recycled, or recovered. Yet, while many laws and policies have been adopted for this very purpose, a number of recurrent challenges persist across interventions seeking to further facilitate the necessary, widespread transitions to sustainable waste management. Blockchain technology provides a promising platform for sustainable waste management. It enables secure, transparent, and tamper-proof tracking of waste from source to disposal, reducing instances of illegal dumping and waste mismanagement. Blockchain can also create decentralized platforms for sharing waste materials, promoting the circular economy and reducing the amount of waste that goes to landfills. By creating a tamper-proof digital ledger of waste management activities, blockchain can help to increase accountability and reduce the instances of illegal dumping and other forms of waste mismanagement. This can result in a more sustainable waste management system, as it encourages the responsible disposal of waste and incentivizes organizations and individuals to adopt sustainable practices. The use of blockchain technology in waste management is still in its early stages, but it shows great potential for promoting sustainability and creating more efficient waste management systems.

Keywords--- Blockchain, Decentralized, Tamper-proof Tracking, Digital Ledger.

Sustainable Green IT Strategies for Business Development

K. Sudarshan, Associate Professor & Head, Information Science & Engineering Department, Srinivas Institute of Technology, Mangalore, Karnataka. E-mail: krsudarshan@sitmng.ac.in

Sowmya, Assistant Professor, Information Science & Engineering Department, Srinivas Institute of Technology, Mangalore, Karnataka. E-mail: sowmyakulal@sitmng.ac.in

Abstract--- Green IT refers to the environmentally-friendly use and disposal of information and communication technology (ICT) devices, systems, and processes. The goal of green IT is to minimize the negative impact of ICT on the environment and promote sustainability. This includes practices such as using energy-efficient hardware, virtualizing servers, utilizing cloud computing, properly disposing of electronic waste, and encouraging telecommuting. Green IT can help organizations reduce their carbon footprint, conserve energy, reduce costs, and enhance their reputation as environmentally responsible businesses. By promoting green IT, organizations can raise awareness of environmental issues and encourage the wider adoption of sustainable practices in the ICT industry.

Keywords--- Green IT, Virtualization, Cloud Computing, Carbon Footprint.

Blockchain-Enabled Sustainable Waste Management: A Path to a Greener Future

*Sowmya, Assistant Professor, Information Science & Engineering Department, Srinivas Institute of Technology, Mangalore, Karnataka. E-mail: sowmyakulal@sitmng.ac.in

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Keywords--- Green IT, Virtualization, Cloud Computing, Carbon Footprint.

TRAFFIC INTELLECTUAL SYSTEM

Prof. Sudarshan K ¹

Sandhyagowda², Aparna N³, Deeya⁴, Sangeeta Shridhar Gowdas

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology Mangaluru, India

Abstract

Traffic sign detection and recognition topic are one of the most popular topics of computer vision and image processing in recent years, as they play an important role in autonomous driving and traffic safety. This project proposes a system that will detect and classify different types of traffic signs from images. This paper differs from other papers as it uses signs that are globally recognized and is not limited to very few signs like many other papers. The number of signs used in this paper for classification is 28, which are used all around the globe.

DEEP LEARNING MODEL FOR ESTIMATING PREDICTING AND FORECASTING OF TROPICAL CYCLONE INTENSITY USING SATELLITE IMAGES

Prof.Sudarshan K ¹

Ishika ², M Pratheeksha Prakash ³, Nihal ⁴, Shravya ⁵

Assistant Professor ¹, UG Scholars ^{2,3,4,5}

Srinivas Institute of Technology, Mangaluru, India

Abstract

Cyclone is a meteorological phenomenon characterized by large-scale rotating and converging air mass around a center of low atmospheric pressure. They cause severe damage to the ecosystem and the global economy. Finding the direction that a cyclone is moving and how that affects the places where it causes damage to people and property is one of the elements that is crucial. Image classification has had a large interest for many decades in the remote sensing communities to reduce injuries caused by cyclones. Many existing works have been designed in cyclone prediction for attaining better prediction accuracy, an alternate method is utilized to infer the tropical cyclone intensity from satellite photos in order to address existing problems. Manual EPF is prone to errors and results in serious catastrophes. The proposed model would Estimate, Predict and Forecast the TC using the collected satellite images. As a result, the suggested machine learning model contains techniques (EPF) for forecasting and cyclone strength identification.

"ANKE GYAANI"- CREATION AND RECOGNITION OF HANDWRITTEN TULU NUMERALS

Prof.Sudarshan K ¹

Ishika ²,M Pratheeksha Prakash³,Nihal⁴,Shravya ⁵

Assistant Professor¹,UG Scholars^{2,3,4,5}

Srinivas Institute of Technology, Mangaluru, India

Abstract

Numerals are an integral part of a language and Handwritten Numeral Recognition (HNR) has become an attractive research area due to its different uses in everyday life in both handwritten and printed forms. Individual languages have different numeral sets; and structure, similarity, and other complications in a numeral set increase the complexity of Handwritten Numeral Recognition.

The fundamental script in India is Brahmi. Such a significant number of works has been done in various Indian dialects except for Tulu which is one among the various created types of Brahmi content. Tulu is a south Indian Dravidian Language with rich set of handwritten patterns. There are limited numbers of benchmark document image databases available. This project focuses mainly on creating and recognising Tulu Numerals datasets. This will show the English and Kannada equivalent of the Tulu Numerals.

DEEP FAKE DETECTION USING CNN

Prof. Athmaranjan K ¹

Prajwal N², Bharathesh Nayak³, Ganesh Prasad⁴, Hemantha Krishna⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology Mangaluru, India

Abstract

Deep learning algorithms have become so potent as a result of increased computing power that it is now relatively easy to produce indistinguishable human-synthesized videos, sometimes known as "deep fakes." One may easily imagine scenarios in which these lifelike faceswapped deep fakes are used to incite political unrest, stage fake terrorist attacks, produce revenge pornography, and blackmail people. The method described in this paper uses deep learning to efficiently discriminate between phoney videos created by AI and actual videos. With the help of this technique, deep fakes can be replaced and recreated automatically. This portal is attempting to combat artificial intelligence (AI) by using AI. The frame-level features are extracted by this system using a Res-Next Convolution neural network, and these features are then utilised to train an LSTM-based recurrent neural network.

FAKE CURRENCY DETECTION

Prof. Athmaranjan K ¹

Agnus Antony², Chetan K³, Dhanya C Acharya⁴, Muralikrishna Shetty⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology Mangaluru, India

Abstract

A fake version of the original currency is referred to as counterfeiting. Therefore, the Indian government does not endorse counterfeit money. In India, only the RBI is in charge of printing currency. Once screened and released into the market, counterfeit banknotes present an issue that the RBI must address every year. The printing and scanning industries' significant technological advancements caused the counterfeiting problem to worsen. Therefore, counterfeit money has an impact on the economy and lowers the value of real money. The requirement to identify fraudulent currency is therefore greatest. The majority of the earlier systems rely on hardware and image processing methods. These techniques are less effective and take more effort to find fake money. To overcome the above problem, we have proposed the Identification of Fake Indian Currency using Xception Architecture. Through analysis of the currency images, our technique detects counterfeit money. Indian currency data sets for the 2000 and 500 rupee notes are used to train the Xception Architecture to learn the feature map of the respective currencies. The network is prepared to recognise fraudulent currencies in real time after the feature map has been learned. The suggested method takes less time and effectively detects forgeries of the 2000 and 500 currencies. The training accuracy of our suggested model was 93.34%, and the validation accuracy was 97.00%.

INTONATION- A SPEECH EMOTION ANALYZER

Prof. Sowmya ¹

Prajwal shetty², Sanket K Manakikar³, Vinay Kumar V⁴, Vishal P Naik⁵

Assistant Professor¹, UG Scholars^{2,3,4,5}

Srinivas Institute of Technology Mangaluru, India

Abstract

Due to the discrepancy between acoustic features and human emotions, which heavily relies on the discriminative acoustic characteristics retrieved for a given recognition task, automated speech emotion recognition is a challenging procedure. People express their emotions in a variety of ways that vary from one another. Pitch changes are highlighted when thinking about various issues because spoken emotion does have distinct energies. As a result, one of the challenging tasks in computational vision is speech emotion detection. Speech emotion recognition is a multimodal process by its very nature. Despite the fact that speech modality communicates a significant amount of emotional information, it is insufficient to identify affective states of people in everyday scenarios.

The necessary information needed for recognizing emotions is also communicated by other modalities, such as visual or linguistic modality. That is, in addition to words, people can infer someone else's emotions from their body language, facial expression, semantics, or context. Here, the Convolutional Neural Network (CNN) method is utilized for voice emotion detection. The CNN algorithm uses many modules for emotion recognition and classifiers are used to distinguish between emotions like happiness, surprise, anger, neutrality, sorrow, etc. Speech samples serve as the dataset for the speech emotion detection system, and the LIBROSA package is used to extract attributes from these speech samples. The effectiveness of the classification is based on the extracted attributes. Finally, we can identify the voice signal's emotional content.

IMAGE CAPTION GENERATOR USING DEEP LEARNING

Prof. Sowmya¹

K Madhav Kamath², Suraksha N³, Truthpi⁴

Assistant Professor, UG Scholars^{2,3,4}

Srinivas Institute of Technology, Valachil, Mangaluru, India

Abstract

The Image Caption Generator using Deep Learning project aims to develop a system that automatically generates captions for images, providing a human-like understanding of visual content. Leveraging the power of deep learning techniques, the proposed system combines computer vision and natural language processing to bridge the gap between visual perception and textual comprehension. The project utilizes convolutional neural networks (CNNs) to extract meaningful visual features from input images. These CNN-based models are trained on large-scale image datasets, enabling them to identify objects, shapes, and patterns within images effectively. The extracted visual features serve as rich representations of the visual content and act as input to the subsequent caption generation module.

CARTOONIFY AN IMAGE

Shreekshitha ¹, Shreeja M ²
Assistant Professor,² PG Scholars¹
Department of MCA

Srinivas Institute of Technology ,Mangaluru,Karnataka,India

Abstract

Image process could be a methodology to perform some operations on a picture, so as to induce Associate in Nursing increased image or to extract some helpful data from it. it's a kind of signal process within which input is a picture and output might be an image or characteristics/features related to that image. Image process tools include: OpenCv, Scikit Image, Numpy. A Generative Adversarial Network (GAN) is essentially wont to learn the extracted representations and any animate the photographs. the most object of our methodology is to create our framework additional governable and adjusting. Generative modeling is Associate in Nursing unattended learning task in machine learning that involves mechanically discovering and learning the regularities or patterns in input file in such how that the model may be wont to generate or output new examples that credibly might be drawn from the first dataset. OpenCV is Associate in Nursing ASCII text file python library used for pc vision and machine learning. it's principally geared toward time period pc vision and image process. it's wont to perform different operations on pictures that rework them victimization different techniques. Numpy could be a library for scientific computing in Python. It provides a superior flat array object and tools for operating with these arrays. A NumPy array is analogous to an inventory. we are able to solid an inventory to a NumPy array by first importation it. Numpy arrays contain information of a similar type; we are able to use the attribute "dtype" to get the info style of the array's components. The algorithms utilized in image process area unit morphological Image process, mathematician Image process, Fourier rework in image process, Convolution Neural, Edge Detection in image process, rippling Image process.

M-4

A REVIEW ON SOME TYPES OF DOMINATION IN GRAPH THEORY

Mrs. Shilpakala K¹, Mrs. Vathsalya¹, Mrs. Ramya N.Q¹.

¹ Assistant Professor, Department of Mathematics, Srinivas Institute of Technology, Mangaluru.

One of the fastest growing area within graph theory is the study of domination and related subset problems such as independence, covering and matching. Let $G = (V, E)$ be a graph. A set of vertices 'S' in a graph 'G' is said to be a dominating set if every vertex $v \in V(G)$ is either an element of S or is adjacent to an element of S. Several models of domination have been developed by imposing conditions on the dominating set. This paper focuses on review of some types of domination such as distance domination, connected domination, Total domination, Paired domination and k-domination.

KEYWORDS : Graph, Domination, Distance domination, Connected domination, Total domination, Paired domination and k-domination.

M-2

On the K-Metro Domination Number of Open Triangular Ladder Graph

Rajeshwari Shivaraya ^{1,a)}, Basavaraju G C ^{2,b)}, Ananth Kulkarni ^{3,c)}

¹ Department of Mathematics

Srinivas Institute of engineering and technology, Mukka, Karnataka, India

² Department of Mathematics

Brindavan College of engineering, Bengaluru, Karnataka, India

³ Department of Mathematics

Srinivas Institute of Technology, Karnataka, India

a)rajinayan85@gmail.com, b)basava.raju759@gmail.com, c)anantkulkarni.k@gmail.com,

A dominating set D of a graph $G=(V,E)$ is called Metro dominating set of G . If for every pair of vertices u, v , there exists a vertex w in D such that $d(u,w) \leq d(v,w)$. The K-metro domination number of open triangular ladder graph $(\gamma_{\beta k O}[TLn])$, is the order of smallest K-dominating set of $O[TLn]$ which serves as a metric set. In this paper we calculate K-metro domination number of open triangular ladder graph $(\gamma_{\beta}[TLn])$.

KEYWORDS: Dominating set, K- Dominating set, Domination number, Locating dominating set, Metric dimension, Metro domination set.

M-4

A REVIEW ON SOME TYPES OF DOMINATION IN GRAPH THEORY

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ADDRESS FOR CORRESPONDENCE

Dr Veena Santhosh Rai,
Associate Professor
Srinivas Institute of Technology
Valchil, Mangaluru-574143
Ph:+91 9620013293
Email:veenasanthoshrai@sitmng.ac.in



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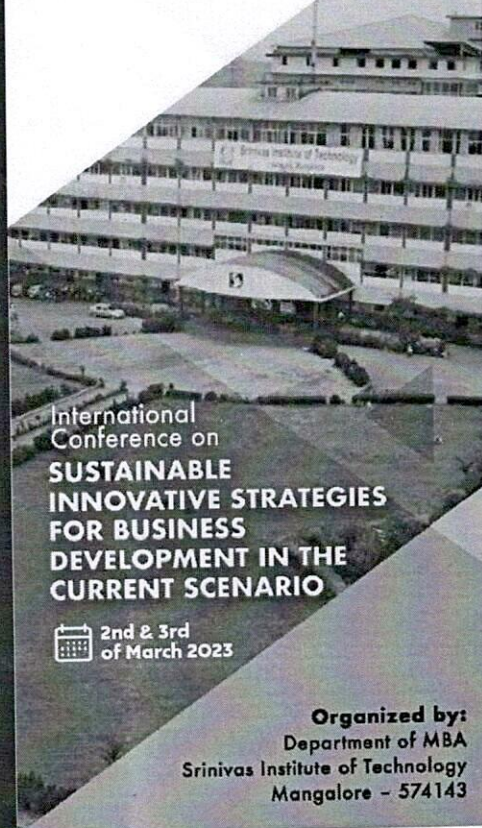
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ABOUT THE CONFERENCE

Sustainable innovative strategy for business development is a set of innovative actionable steps that a company takes to improve their impact on the community and the environment. A sustainable strategy for development of business is unique to each business and its operations. Some organizations take small steps to reach a sustainable goal, such as working to switch their production to use entirely renewable energy within a five-year time frame. Other companies take actions that can be implemented immediately, such as switching their packaging to use only recyclable materials. Sustainable strategies can also focus on giving back to the local community through monetary means or physical action. Some organizations may see sustainable business strategies as additional work with no reward, but this is not the case. Sustainable business strategies can have many benefits for the company as well as the environment and the community as a whole. As environmental concerns become more prevalent, many businesses are adopting innovative strategies for sustainability and development.

OBJECTIVE

The main objective of this International Conference is to bring academicians, practitioners, professionals and research scholars on a common platform for sharing their opinions, experiences and ideas about "Sustainable Innovative Strategies for Business Development in the Current Scenario". It is also intended to explore the different sub themes of the seminar which are shown below.

SUB- THEMES OF THE CONFERENCE

- Sustainability and Development of business in Service Sector
- Sustainability and Development in Financial Management practices
- Strategies for sustainability and Development in globalization, liberalization and privatization
- Business Development with Environmental sustainability leading to economic development
- Changing dimensions of Business environment concerning to sustainability and Development
- Global marketing strategies for Sustainability and development

- Sustainable strategies in banking and insurance sectors
- Harnessing human capital for sustainability and development
- Role of Digitalization in Sustainability and development in business
- Millennium perception of sustainability and Development in Business
- Sustainability and development of Business in Social entrepreneurship and social enterprises
- Sustainability and Development in information technology practices
(Any broad sub-themes related to the conference topic are also accepted)

KEYNOTE SPEAKER



DR. HABEEB UR RAHMAN

Dr. Habeeb Ur Rahman, Faculty, College of Business Administration, and Head of the Staff Development Unit at Kingdom University, Bahrain. Has rendered services in the field of academia in higher education specifically for more than a decade. Was awarded a Doctor of Philosophy (Ph.D.) in Management and a Master of Business Administration (MBA) from Visvesvaraya Technological University, Karnataka. He has gained 'Fellow' status from Advance Higher Education (HE), United Kingdom for his contribution to Global Higher Education. He has also been certified in FinTech from the University of Cambridge, England, Artificial Intelligence from Massachusetts Institute of Technology (MIT), United States, and Transactional Analysis from The Berne Institute, England. Dr. Habeeb is an active researcher in the area of social science and humanities with the publication of articles in Scopus, ABDC, and Web of Science journals. Owing to his expertise he has been invited as a reviewer for various notable journals like Elsevier, Emerald, Taylor and Francis, Springer, and many more indexed journals. He is also recognized as a Ph.D. examiner for central and state Universities of India. Known for his oratory skills, he has delivered more than 100 sessions globally on behavioral science, training pedagogy, personality training, and enhancement programs in association with various academic institutions, NGOs, and corporate sectors. He is also a distinguished member of NGOs and academic institutions.



**International Conference
on
SUSTAINABLE INNOVATIVE
STRATEGIES FOR BUSINESS
DEVELOPMENT IN THE
CURRENT SCENARIO**

**I
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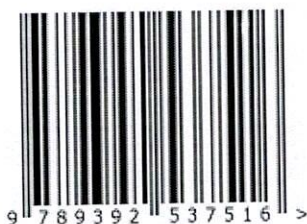
International Conference on Sustainable Innovative Strategies for Business Development in the Current Scenario

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Social Media Marketing for Sustainability: Literature Review

Rashmi, Research Scholar, Assistant Professor, MBA Department, Srinivas Institute of Technology,
Mangalore, Karnataka. E-mail: rashmi.mba702@gmail.com

Dr.S.J. Ajoy, Research co supervisor and Head, MBA department, Srinivas Institute of Technology,
Mangalore, Karnataka. E-mail: ajoysj@gmail.com

Dr.D. Shrinivasa Mayya, Research Supervisor, and Principal, Srinivas Institute of Technology, Mangalore,
Karnataka. E-mail: srinmayya@gmail.com

Abstract--- The field of digital marketing is constantly developing; digital marketing is performed using social media marketing tools and today social media plays a vital role in the marketing. Currently, many business firms require rigorous marketing following the COVID-19 outbreak, and many rely on social media for sustainability. As a relatively new arena, social media has piqued researchers' curiosity in its potential role in marketing and sustainability. The research is conducted with the objective of studying the marketing sustainability and the paper intends to highlight the factors that influence the adoption of social media marketing for sustainability through rigorous literature analysis.

Keyword--- Digital Marketing, Marketing Sustainability, Social Media, Social Media Marketing.

Impact of Central Bank Digital Currency on Foreign Trade Market

M. Shankara, Assistant Professor, Department of Commerce, Government First Grade College, Ripponpet.

E-mail: shankaratcm@gmail.com

Dr.U.P. Hariprakash, Professor and Research Supervisor, Department of MBA, Srinivas Institute of Technology, Mangalore. E-mail: hariprakashup@gmail.com

R. Devaraj, Assistant Professor, Department of Commerce, Government First Grade College, Ripponpet.

E-mail: devar208@gmail.com

Abstract--- The RBI being a central bank of the India has not encouraged cryptocurrency- Because it cannot be regulated and control how much Bitcoin is being sent from whom to where – this leaves room for shadow economies and illegal black-market transactions. Therefore, The RBI intends to introduce digital rupee as legal tender of currency. The aim is that digital currency would reduce dependence on physical cash, reduced costs of printing, storage, and to get more transparency.

Payment systems are at core of the economic development. in this regard RBI initiated the first pilot in the Digital Rupee - Wholesale segment (₹-W) commenced on November 1, 2022. And first pilot for retail digital Rupee (₹-R) on December 01, 2022. The ₹-W would be in the form of a digital token that represents legal tender between inter banks at National/ International level. It would help to make Easy payment and settlement of foreign trade more efficiently.

Digital currencies will eliminate intermediaries for payments. Since settlements will happen directly without intermediaries, Further, settlement will be available Round the Clock. Some countries are using SWIFT to enforce financial sanctions on specific countries/persons, Society for Worldwide Interbank Financial Telecommunications (SWIFT) is a member-owned cooperative that provides safe and secure financial transactions for its members.

With the usage of digital currencies for cross border transactions, it can be anticipated to see the substantial growth in foreign trade as payments are directly settled between Central Banks instead of intermediaries like SWIFT.

Keywords--- Central Bank Digital Currency (CBDC), Society for Worldwide Interbank Financial Telecommunication (SWIFT), Digital Currency, RBI, CHIPS, Foreign Trade, Foreign Exchange Rate.

MSMEs in The New Face of Digitalization: A Study with Reference to Sustainability and Development

Mrs. Shilpa Patil, Research Scholar at Srinivas University Institute of Commerce and Management, Mangalore and Assistant Professor, Department of Commerce, Government First Grade College, Ripponpet.

E-mail: pshipi026@gmail.com

Dr.U.P. Hariprakash, Professor and Research Supervisor, Department of MBA, Srinivas Institute of Technology, Mangalore. E-mail: hariprakashup@gmail.com

Dr.C. Rakesh, Assistant Professor, Department of Commerce, Government First Grade College, Ripponpet.

E-mail: rakeshcgfgcr202@gmail.com

Abstract--- In India, Micro Small Medium Enterprises (MSMEs) are the major pillars of economy where they contributed 29% of GDP in 2022 (as per Ministry of Statistics and Programme Implementation). The FY22 Annual Report of the Ministry for MSMEs says there are 63.39 million MSMEs employing 111 million. In order to strengthen the MSMEs in various aspects there is a requirement of digitalization which transforms industries to become smarter and self-driven. In addition, digitalization helps the industries to reengineer the existing technologies to embrace new changes and impose a constant and unified growth in the sector.

But MSMEs are performing slothfully when it comes to digital adoption and not averse to digital transformation. The digitalization is required for MSMEs in broader activities like support & assistance, training, upskilling, digital security profile, surveillance, security, attendance, accounting, web presence, virtual meetings, etc. Hence, the present research aims to identify and understand digitalization challenges for MSMEs sustainability and development. The research undergoes using secondary source of information to find possible solutions for identified challenges. And, research study concluded with recommendations which MSMEs can transform to digitalization for sustainability and development.

Keywords--- Digitalization, Growth, MSMEs, Sustainability and Technology.

Innovative Strategies for Sustainability in Tourism Industry

*Dr. Veena Santhosh Rai, Associate Professor, Department of MBA, Srinivas Institute of Technology,
Mangalore, Karnataka. E-mail: veenasanthoshrai@sitmnng.ac.in

Abstract--- Kodagu is known for its blessed weather and is also called as "Scotland of India", It is known for globetrotting. Coorg is known for travelling exploring and the weather in Kodagu is a boon. It is filled with tourist attraction such as coffee estates, thick forest, waterfalls and wildlife sanctuary. Homestays and Resorts have been adopted to provide stable household income, and promote environmental awareness and cultural experiences to various travelers across the world. Disruption of the environment has caused a great hit to natural beauty of Kodagu. Through this study an attempt is made to analyze the transformation in the LIFE STYLE of people in Kodagu due to the adaptation to Sustainable Challenges this study is with special reference to home stays and resorts in coorg the process of how they overcame the challenges, the paper estimates the problems faced by Homestay and Resorts and how they overcame it. Further the paper puts forward the coping strategies which are used to overcome the Obstacles and facilitate recovery. Through this study an attempt is made to analyze the sustainable challenges faced by homestay and resort in Coorg and this study provides a quick overview of the sustainable challenges faced by homestays and resorts in Kodagu (Coorg).

Keywords--- Coorg, Challenges, Homestay and Resorts, Obstacles, Sustainability.

Social Media Marketing for Sustainability: Literature Review

Rashmi, Research Scholar, Assistant Professor, MBA Department, Srinivas Institute of Technology,
Mangalore, Karnataka. E-mail: rashmi.mba702@gmail.com

Dr.S.J. Ajoy, Research co supervisor and Head, MBA department, Srinivas Institute of Technology,
Mangalore, Karnataka. E-mail: ajoysj@gmail.com

Dr.D. Shrinivasa Mayya, Research Supervisor, and Principal, Srinivas Institute of Technology, Mangalore,
Karnataka. E-mail: srinmayya@gmail.com

Abstract--- The field of digital marketing is constantly developing; digital marketing is performed using social media marketing tools and today social media plays a vital role in the marketing. Currently, many business firms require rigorous marketing following the COVID-19 outbreak, and many rely on social media for sustainability. As a relatively new arena, social media has piqued researchers' curiosity in its potential role in marketing and sustainability. The research is conducted with the objective of studying the marketing sustainability and the paper intends to highlight the factors that influence the adoption of social media marketing for sustainability through rigorous literature analysis.

Keyword--- Digital Marketing, Marketing Sustainability, Social Media, Social Media Marketing.

Reimaging Customer Engagement in Banking Sector Through Hi Tech Banking Services in Post Pandemic Era

Mrs. Mallika, Assistant Professor, MBA Department, Srinivas Institute of Technology, Mangalore.

E-mail: mallikatian@gmail.com

Dr. Ajoy S Joseph, Professor & Head, MBA Department, Srinivas Institute of Technology, Mangalore.

E-mail: ajoysj@gmail.com

Abstract--- During the last two decades banking sector has undergone a phenomenal transformation. Technology has become a strategic tool for differentiation of banking services and has brought grass root revolution, as can be seen in the way various banks function, deliver, and compete against each other. Researchers in past few years have found technology acceptance in services from many levels like self-service technology for delivering services at anytime, anywhere either by human or by technology. It was proved During Pandemic where customers utilised all these digital services to perform their banking functions.

In the old days, banking used to be a time-consuming business, where the basic transactions like cash deposits and withdrawals were taking long time, the customers had to stand in a queue to avail the facility. Everything was done under the token system. But now everything has changed and become hassle free. Moreover, going digital allows you the perfect opportunity to enjoy paperless banking experience, where you no longer need to keep track of your transactions or banking history through physical documents. With Hi Tech banking services, you can transact with high speed, ease and convenience. It served as "Time saver tool" for customers as well as for the bank employees.

Keywords--- Banking, Technology, E-Payment, Hi Tech Banking, Customers.

A Study on Factors that Affect Financial Sustainability of Industries- literature Review

Ashwini, Assistant Professors, Department of MBA, Srinivas Institute of Technology, Mangaluru.

E-mail: ashwinik.mangalore@gmail.com

Abstract--- To attain sustainable development, the financial sector must allocate funds to initiatives that support an inclusive society that uses natural resources sustainably to meet its requirements. To promote sustainable global development, sustainable financial practises are essential. This paper aims to propose a framework for measuring sustainability practices of the few industries. This article provides a thorough analysis of 15 publications on factors that affect industries financial sustainability and suggested framework for academicians and industry professionals to undertake research.

Keyword--- Academicians, Analysis, Factors, Financial Sustainability, Requirements.

CALL FOR PAPERS

We invite researchers, academicians, business people, professional and practitioners to submit papers related to the conference theme/ sub themes.

ABSTRACT SUBMISSION

Authors are requested to submit an abstract of the paper of not more than 300 words. The abstract should be spell checked, double spaced with 1.5 inch margin on all sides and font should be 12-point Times New Roman. All submissions are to be made through sitmba2023@conference@gmail.com

DEADLINES

30th August 2023 Last date to submit the abstract
1st September 2023 Intimation of acceptance of abstract
3rd September 2023 Last date for registration
22nd September 2023 Last date to submit the full paper

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- Title 16 Font Size Bold
- Abstract 250-300 words with following five sections: Background, Objectives, Methodology, Key Findings, Implications/Significance.
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- Full paper Need to include Introduction, Literature review, methods, results and discussion, conclusion. Full-length research manuscripts must be in the size of 4900 words to 7500 words. (MS WORD format only)
- References 7th edition of APA citation guidelines
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ADDRESS FOR CORRESPONDENCE

Mrs. Rashmi

Assistant Professor, Department of MBA
Srinivas Institute of Technology, Valachil, Mangaluru - 574143
+91 9986277769 | rashnimbasit@sitmng.ac.in



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ABOUT SRINIVAS GROUP

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ABOUT CONFERENCE

Trends in Management and Technology offers a unique and valuable perspective on the dynamic relationship between the two crucial fields. It addresses the needs of professionals seeking insights, solutions, and networking opportunities in an era of rapid technological advancement and evolving management practices. Management and technology are two integral aspects of modern businesses and organizations. The intersection of these two fields highlights how technological advancements are shaping management practices and how effective management strategies are crucial for successful technology implementation. The convergence of management and technology has a significant impact on economic growth, job creation, and industry competitiveness. This theme appeals to professionals from various backgrounds, including technology experts and researchers. It encourages cross-disciplinary learning and collaboration, leading to a diverse and enriching conference experience. The theme of the conference will address the challenges at the intersection of management and technology, such as change management during technological transitions, digital transformation strategies, data-driven decision-making, and more.

SUB THEMES

TECHNOLOGY

Role of social media in any sector | Sustainability & Clean Tech | Biotechnology and Health Innovations | Augmented Reality (AR) & Virtual Reality (VR) | Remote Work & Collaboration Tools | Smart Cities & Urban Tech | AI Explainability and Ethics | Gamification

FINANCE

Fintech Innovation | Sustainable Finance | Digital Transformation in Finance | Emergence of new banking system Emerging trend in Indian global finance and global economy | Emerging trend in International trade and business sector in digital era | Remote Work and Digital Banking | Digital currency | Role of Fintech in different financial markets | Financial modelling | Innovative financial model for different sectors | Empirical Modelling in Financial Business Research

MARKETING

E - Integrated marketing communication | Digital connectivity | Cross channel marketing and digitalization | Digital start-ups | Social media marketing | Marketing in Metaverse | Application of AI in Marketing | AR & VR in Marketing | Robotics & Automation in Marketing | Neuromarketing | New-age technology adoption | Consumer behavior analytics | Customer experience in the age of AI | Green Marketing | Responsible Consumption | Digitalization of rural markets | Branding in Digital Age | Influencer Marketing | Smart Marketing strategy for different sectors

HUMAN RESOURCE

Sustainability & Corporate Social Responsibility | Gig Economy & Contingent Workforce | Employer Branding & Employee Experience | HR Technology & Automation | Continuous Learning & Upskilling | Employee Well-being & Mental Health | Remote Work & Hybrid Work Models

KEYNOTE SPEAKER



Nasser Alhamar Alkathiri is an assistant professor and the Head of Business Administration Department at the College of Economics and Business Administration, University of Technology and Applied Sciences, Salalah, Oman.

Dr. Nasser holds a PhD in Knowledge Transfer from Plymouth University, UK. He also holds a Master degree in International Business from Sydney University, Australia. His research interests include knowledge management, knowledge transfer, international, business, entrepreneurship and staff localization. He has published multiple papers in reputed journals indexed in WoS and Scopus (e.g. Journal of Knowledge Management, International Journal of Finance & Economics and International Journal of Contemporary Hospitality Management). He has several participations and local and international conferences. Notably, his expertise has facilitated the successful procurement of funded projects, amassing a cumulative value surpassing \$38,000, a testament to his proficiency in securing resources for academic advancement and research endeavors. Finally, He has conducted numerous lectures, workshops, and presentations as part of his community service efforts.

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**A CASE STUDY ON WELLBEING AND MENTAL HEALTH AMONG
MEDICAL AND PARAMEDICAL STAFFS AT BELTHANGADI,
KARNATAKA**

Shobha U P, Research Scholar
Dr. Ajoy S Joseph, Research Supervisor
Research Centre, MBA Department, Srinivas Institute of Technology, Mangaluru,

Abstract

The viability of organisations and the well-being of the people who make up those organisations depend greatly on workplace well-being. Businesses that have implemented workplace health programmes have reported favourable business outcomes, including improved employee morale, productivity, and psychological wellbeing among many other advantages. A healthy and balanced existence is what workplace well-being signifies for an individual. The advantages of having a mentally healthy workforce are abundantly evident. Work in the mental health field fosters and maximises protective factors while identifying and addressing risk factors. The paper highlights on the Wellbeing and Mental Health among Medical and Paramedical Staffs at Belthangadi, Karnataka. In total 30 responses from each job category were collected. In total 180 responses collected from 5 different job categories like, Physicians, Surgeons, Duty Doctors, Nursing, Lab-technicians and from Miscellaneous Service to find out the wellbeing differences between employee groups if any. The paper concludes that, there is a statistically significant difference in overall mental health, physical health, emotional health & Economic Health between the different Medical and Paramedical employee group.

Keywords: Mental Health, Physical Health, Emotional Health, Economic Health

THE SOCIAL MEDIA INFLUENCERS INFLUENCING THE CHOICE OF TRAVEL DESTINATION: A NEW TREND

Rashmi, Research scholar

Dr. Shrinivasa Mayya D. Research supervisor

Dr. Ajoy S Joseph, Research co supervisor

Srinivas Institute of Technology, Valachil, Mangaluru

Abstract

In the contemporary landscape of digital marketing, a transformative trend has emerged, reshaping the way business connects with the large target audience. The rising influence of social media influencers (SMIs) is progressively shaping the consumers buying behavior characterized by authenticity, trust and direct engagement. Influencers convey marketing messages through native advertising format. The use of social media has transformed how people and businesses interact in various domains such as education, hospitality, tourism, banking, fashion and retail. People can share their ideas, content, thoughts and relationships online through social media (networks). Unlike traditional media, social media allows anyone to create and distribute content through text, sound, video, image and community enabling direct and targeted communication with potential customers, without the need for intermediaries like traditional media making it no longer effective. This paper aims at finding. The study also aims at developing a theoretical model that finds the impact of social media influencers on travel destination choice.

Keywords: Consumers buying behavior, digital marketing, social media, social media influencers, transformative trend (SMIs).

INVESTIGATING THE IMPACT OF DIGITAL TRANSFORMATION ON BANKING SERVICES AND CUSTOMER EXPERIENCE

Dr. Ajoy S Joseph 1, Mrs. Mallika 2

1. Professor & Head, MBA Dept, Srinivas Institute of Technology,

2. Asst.Professor, MBA Dept, Srinivas Institute of Technology,

ABSTRACT

Digital transformation has significantly reshaped the landscape of the banking industry, revolutionizing both the delivery of banking services and the overall customer experience. This paper explores the multifaceted impact of digital transformation on the banking sector, focusing on the technological advancements and strategic changes that have enabled banks to adapt and thrive in the digital age. The study examines the various facets of this transformation, including the adoption of innovative technologies, changes in customer behavior, and the evolution of banking business models. By analysing empirical data and case studies, this research aims to provide a comprehensive understanding of how digital transformation has influenced banking services and customer experiences, ultimately shedding light on the future of banking in a digital world.

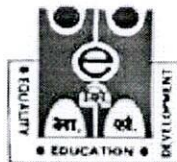
Key words: Digital Transformation, Banking Services, Customer Experience, Technology, Innovation, Business Models.

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**A STUDY ON GENDER PERSPECTIVE OF LEVEL OF DIFFICULTY IN ACCESSING
AND KNOWING THE PROCESS OF MICROFINANCE IN DAKSHINA KANNADA
DISTRICT**

Mr. Praveena D, Assistant Professor, Dept of B. Voc in Retail & Supply Chain Management, SDM College (Autonomous), Ujire. Email Id: pravi1988@sdmucujire.in
Dr. Shrinivasa Mayya D, Principal, Srinivas Institute of Technology, affiliated to VTU University Valachil, Mangaluru Email Id: srinayya@gmail.com
Dr. Ajoy S Joseph, Professor, HOD, Department of MBA, Srinivas Institute of Technology, affiliated to VTU University Valachil, Mangaluru Email Id: ajoyjsj@gmail.com

Abstract

This study investigates the gender perspective on the challenges faced by individuals in accessing and comprehending the microfinance process in Dakshina Kannada district. Microfinance has emerged as a crucial tool for poverty alleviation and financial inclusion, particularly in rural areas. However, gender-related barriers may hinder women's and men's abilities to access and understand the microfinance services effectively. The research employs a mixed-methods approach, combining qualitative and quantitative data collection techniques. Through surveys, interviews, and focus group discussions, data was gathered from both male and female microfinance clients and non-clients in Dakshina Kannada district. The findings shed light on significant disparities in accessing microfinance services between genders. The study shows that there is no statistically significant difference between the male and female microfinance beneficiaries with regard to the level of difficulty faced while accessing the micro finance and also there is no statistically significant difference between the male and female beneficiaries with regard to the level of difficulty faced in understanding the micro finance process. In conclusion, this study is based on pilot study and it employed a very small data sample. The study concludes that there is no gender association in accessing and knowing the process of micro finance. A moderate level association was identified in correlation and regression test. However, with large scale of data this test may give further greater insights in to the subject matter.

Key Words:

Micro Finance, Poverty Alleviation, Financial Inclusion.

Introduction

The rural poor are weakened due to various reasons, such as; most of them are socially backward, illiterate with low motivation and poor economic base. Individually, a poor is not only weak in socioeconomic term but also lacks access to the knowledge and information, which are the most important components of today's development process. However, in a group, they are empowered to overcome many of these weaknesses. The microfinance is only tool to overcome the above drawbacks, and which will help for women empowerment, but the management of finance is very difficult to the women community and in some cases the fund fully miss-utilized and at the same time no authority or regulation is controlling the utilization of fund. Women as micro and small entrepreneurs have increasingly become a key target group for micro-finance programme. Providing access to microfinance is considered a precondition for poverty alleviation, but also for women's empowerment. But despite the proven positive impact entrepreneurs in the informal sector, micro-finance is just one pool among others to address the multiple causes of poverty, unemployment and social exclusion, but micro finance loans are not available to all the women beneficiaries in SHGs. The members are facing

TRENDING DYNAMICS OF DECODING THE DIGITALIZATION FOR MANAGEMENT

**Dr. Veena Santhosh Rai Associate Professor, Department of MBA, Srinivas Institute of
Technology, Mangalore, Karnataka**

ABSTRACT

The rapid advancement of technology and the pervasive influence of digitalization have led to transformative changes across various industries. This research paper aims to explore the intricate interplay between digitalization, management practices, and technology adoption. By unraveling the dynamics of this transformative synergy, we seek to comprehend the implications of digitalization on organizational strategies, decision-making processes, and overall business performance.

Through an extensive literature review and empirical analysis, we investigated the multifaceted impacts of digitalization on management practices. The study delves into the integration of digital tools and technologies into traditional management frameworks, shedding light on how these advancements facilitate streamlined workflows, enhanced efficiency, and improved collaboration.

The findings of this research emphasize the need for adaptive leadership and a proactive approach to embrace digitalization fully. The paper concludes by offering practical recommendations for leaders and managers to navigate the complexities of digital transformation effectively. In conclusion, this research paper contributes to the growing body of knowledge on the profound implications of digitalization for management and technology. By unraveling the dynamics of this transformative synergy, it empowers decision-makers and practitioners to harness the full potential of digitalization, enabling them to steer their organizations toward sustained success in the digital age.

Key Words: Sustained Success, Digital Age. Proactive approach, Technological advancement

EXPLORING METAVERSE OPPORTUNITIES AND THREATS FOR BUSINESSES

Prajwal Ballullaya, Student,
Dr. Veena S Rai, Associate Professor
Department of MBA, Srinivas Institute of Technology, Mangalore

ABSTRACT

The impact of technology is there in every field including management and marketing. The new technological developments bring improvements in the management. One of the new technological innovation is METAVERSE.

The metaverse is a new version of the internet as a single, universal and immersive virtual world that is accessed through the use of Virtual Reality (VR) and Augmented Reality (AR) headsets. In common usage, a metaverse is a network of 3D virtual worlds focused on social and economic connection. The metaverse is new and evolving in technology and still has to be completed. It is still in its early stages of development, but it has the capability to transform the way we interact with the internet and with each other. It can change the way of our interaction and capable to change how we see the world. As similar to other technological developments, metaverse also has its on challenges like privacy and security, addiction, legal and ethical issues.

The study is to understand the possible developments in the business using the metaverse to improve the performance.

The possible benefits of the metaverse include more immersive and engaging experience, new way to connect with people and to collaborate with them, and its an opportunity for business to change its way of working in many ways. The metaverse has the potential to be used in different types of business sectors. It is important to start thinking of how we may develop and utilise the metaverse in an ethical and responsible manner.

Key words: metaverse, virtual reality, business, benefits and threats,

THE SOCIAL MEDIA INFLUENCERS INFLUENCING THE CHOICE OF TRAVEL DESTINATION: A NEW TREND

Rashmi, Research scholar
Dr. Shrinivasa Mayya D. Research supervisor
Dr. Ajoy S Joseph, Research co supervisor
Srinivas Institute of Technology, Valachil, Mangaluru

Abstract

In the contemporary landscape of digital marketing, a transformative trend has emerged, reshaping the way business connects with the large target audience. The rising influence of social media influencers (SMIs) is progressively shaping the consumers buying behavior characterized by authenticity, trust and direct engagement. Influencers convey marketing messages through native advertising format. The use of social media has transformed how people and businesses interact in various domains such as education, hospitality, tourism, banking, fashion and retail. People can share their ideas, content, thoughts and relationships online through social media (networks). Unlike traditional media, social media allows anyone to create and distribute content through text, sound, video, image and community enabling direct and targeted communication with potential customers, without the need for intermediaries like traditional media making it no longer effective. This paper aims at finding. The study also aims at developing a theoretical model that finds the impact of social media influencers on travel destination choice.

Keywords: Consumers buying behavior, digital marketing, social media, social media influencers, transformative trend (SMIs).

Enhancing Employee Branding and Experience for Organizational Success

Kadeejath Sanah, student
Mahammad Arfak, Student
Mrs. Rashmi, Assistant Professor
MBA Department, SIT, Valachil, Mangaluru

Abstract

This paper explores the intertwined realms of employee branding and employee experience within modern organizations. Employee branding delves into how employees, as brand ambassadors, embody and project the values and identity of the organization. Aligning this representation with the core brand values is pivotal for a consistent and authentic brand image. On the other hand, employee experience encapsulates the entirety of an employee's journey within the organization, encompassing work environment, growth opportunities, work-life balance, and more. Enhancing employee experience is central to nurturing a satisfied and engaged workforce, thereby influencing the organization's overall performance. This paper delves into the intricacies of employee branding and employee experience, aiming to provide valuable insights for organizations seeking to optimize these aspects for a prosperous and harmonious work culture.

Keywords: Brand image, Employee branding, Employee experience, Prosperous and harmonious work culture.

CYBER SECURITY A DETAIL INSIGHT INTO INDIAN SMALL BUSINESSES

SHIBIN THOMAS, First year MBA Institute of Management & Commerce, Srinivas University, Mangalore
Prof. Ashwini and Prof. Dhanya K, MBA Department, Srinivas Institute of Technology, Mangaluru

ABSTRACT

This study examines the vital significance of cyber security for Indian small businesses. Small enterprises are essential to the growth of India's economy as it embraces Industry 4.0 and develops its digital infrastructure. They are, however, more and more vulnerable to cyber threats, which can result in monetary losses, reputational harm, and even corporate shutdown. In order to ensure sustainable growth and competitiveness in the digital age, this paper highlights the specific cyber security challenges faced by small industries in India as well as the possible negative effects of ignoring cyber security. It also makes a strong case for why these industries should priorities and invest in effective cyber security measures. Small businesses in India find themselves at the crossroads of enormous opportunity and severe obstacles in the fast-changing digital landscape of today. These tiny businesses are progressively turning into the top targets for cyber-attacks as the country moves forward with its digital transformation and economic growth. This study explores the need for Indian small businesses to priorities and embrace cyber security. It offers a thorough study of the particular cyber security problems they encounter, the possible repercussions of ignoring cyber security, and the strong arguments in favor of spending money on effective cyber security measures. Small businesses may preserve their operations and position themselves for sustained growth and competitiveness in the digital age by addressing these concerns.

Keywords: Infrastructure, vulnerable, reputational, competitiveness.

INVESTIGATING THE IMPACT OF DIGITAL TRANSFORMATION ON BANKING SERVICES AND CUSTOMER EXPERIENCE

Dr. Ajoy S Joseph 1, Mrs. Mallika 2

1. Professor & Head, MBA Dept, Srinivas Institute of Technology,
2. Asst. Professor, MBA Dept, Srinivas Institute of Technology,

ABSTRACT

Digital transformation has significantly reshaped the landscape of the banking industry, revolutionizing both the delivery of banking services and the overall customer experience. This paper explores the multifaceted impact of digital transformation on the banking sector, focusing on the technological advancements and strategic changes that have enabled banks to adapt and thrive in the digital age. The study examines the various facets of this transformation, including the adoption of innovative technologies, changes in customer behavior, and the evolution of banking business models. By analyzing empirical data and case studies, this research aims to provide a comprehensive understanding of how digital transformation has influenced banking services and customer experiences, ultimately shedding light on the future of banking in a digital world.

Key words: Digital Transformation, Banking Services, Customer Experience, Technology, Innovation, Business Models,

**"EMPOWERING THE UNBANKED: A PARADIGM SHIFT IN
DIGITAL TRANSFORMATION THROUGH
MOBILE PAYMENT IN FINANCIAL INCLUSION"**

Mrs.Mallika, Asst.Professor,
Ms.Fathima Afeeza, 1st year MBA,
Mr.Ajeya R.V, 1st year MBA, Srinivas Institute of Technology

ABSTRACT

In an era defined by rapid technological advancements, the global financial landscape is undergoing a profound transformation. Central to this evolution is the integration of mobile payment systems, serving as a catalyst for financial inclusion. This abstract delves into the unique realm of digital transformation through mobile payments, emphasizing their pivotal role in extending financial services to previously Unbanked or under banked populations.

The convergence of digital technologies, smartphones, and secure payment platforms has ushered in an era of accessibility, efficiency, and affordability in financial services. Mobile payment solutions not only empower individuals by granting them access to formal financial tools but also revolutionize the dynamics of commerce, remittances, and savings. Through a synthesis of case studies and empirical evidence, this abstract illuminates the multifaceted impact of mobile payments in driving financial inclusion.

Key Words: Technological advancements, Unbanked, Remittances, Financial inclusion

A STUDY ON THE ROLE OF IT IN MUTUAL FUND INDUSTRY

S.SADANANDA POOJARY, Assistant Professor,
MBA Department Srinivas Institute of Technology, Valachil, Mangaluru

ABSTRACT

The objective of this study is to evaluate the role of technologies and their impact on the mutual fund industry of India. A study has been made on the implementation of information technologies in modern-day financial services Industries. It aims to study the current trends in growth of mutual fund industry in India. We have discussed the impact of the information technologies on mutual fund services of India.

We have also discussed potential threats, challenges and future prospects of upcoming technologies in the mutual funds industry in India. Based on the study it is found that the information technologies have a positive and important effect on the financial services industry of India. It has also increased the customer experience with better access to the securities market, even from remote places. In addition, the paper has also discussed the challenges faced by the distributors, who are yet to fully understand the implication of the fast-changing technologies around us.

Keywords: Blockchain, Digital footprint, Asset management, Big data, Robo-advisory

"THE ROLE OF BRANDING IN BUSINESS SUCCESS"

Chidananda¹, Gauthami², Prof. Sadananda Poojary³

^{1,2,3}MBA Department, Srinivas Institute of Technology,

Abstract

Branding has emerged as a top management priority in the last decade due to the growing realization that brands are one of the most valuable intangible assets that firms have. Driven in part by this intense industry interest, academic researchers have explored a number of different brand-related topics in recent years, generating scores of papers, articles, research reports and books. This paper identifies some of the influential work in the branding area, highlighting what has been learned from an academic perspective on important topics such as brand positioning, brand integration, brand-equity measurement, brand growth and brand management. The paper also outlines some gaps that exist in the research of branding and brand equity and formulates a series of related research questions.

Key words: brands; brand equity; brand extensions; brand loyalty

EXPLORING THE ROLE OF GAMIFICATION ON STUDENTS ENGAGEMENT LEADING TO OUTCOME BASED LEARNING

DHANYA K, Assistant Professor,
Department of MBA, Srinivas Institute of Technology, Valachil, Mangalore

Abstract:

Gamification is a dynamic approach in education that leverages game elements and mechanics to enhance learning outcomes while engaging students. An attempt is made by the researcher through this paper to explore the multifaceted aspects of gamification in education, shedding light on its potential to boost student engagement, improve learning outcomes, and foster essential skills such as problem-solving.

By integrating game elements into educational settings, gamification offers a promising avenue for motivating students to actively participate in their learning journey. This study delves into the effectiveness of gamification in promoting active participation, and it investigates how this approach adapts to diverse learning styles and preferences, ultimately leading to personalized learning experiences.

Moreover, this paper examines the integral role of technology in education, highlighting the use of digital platforms, simulations, and virtual reality to facilitate gamified learning environments. Through an extensive analysis of successful gamification implementations across various educational levels, this research underscores best practices and key takeaways for educators and policymakers.

The research also assesses the impact of gamification on learning outcomes, revealing improvements in knowledge retention, critical thinking, and collaboration among students. However, it does not shy away from discussing potential challenges and ethical considerations associated with gamified education.

Keywords: *Student engagement, Learning styles, Personalized learning, Digital platforms, Gamified learning environments, Knowledge retention, Critical thinking, Collaboration, Ethical considerations, Digital age, Transformation of education*

ROLE OF "DIGITAL TRANSFORMATION AND CHANGE MANAGEMENT

Harisha yadava¹ Student of MBA Department

Dhanya k², Assistant professor of MBA Department, Srinivas Institute of Technology

Abstract

This abstract provides an overview of the concepts of Digital Transformation and Change Management. Digital Transformation is the process of leveraging digital technologies to fundamentally change an organization's operations, culture, and customer experiences. Change Management, on the other hand, is the structured approach to managing the people side of change within an organization. This paper explores the intersection of these two critical domains, highlighting the importance of effectively managing change during digital transformation initiatives. It delves into key strategies, challenges, and best practices for successful implementation, emphasizing the need for leadership, communication, and employee engagement throughout the process. The abstract concludes by emphasizing the significance of integrating change management principles into digital transformation strategies to maximize the likelihood of achieving desired outcomes in today's rapidly evolving business landscape.

Keywords: Technology Adoption, Organizational Change, Culture Shift, Business Strategy, Digitalization.

**NAVIGATING UNCHARTED WATERS: CHALLENGES FACED BY
ENTREPRENEURS IN GROWING AND EXPANDING THEIR BUSINESSES INTO
FOREIGN TERRITORIES"**

K Poojashri¹, Anjali², Prof. Dhanya K³
1,2,3MBA Department, Srinivas Institute of Technology, Mangaluru

Abstract

In an increasingly globalized business environment, entrepreneurs seek new avenues for growth and profitability by expanding their businesses into foreign territories. This paper explores the multifaceted challenges that entrepreneurs encounter during this endeavor and examines the formidable challenges that entrepreneurs encounter during this international expansion journey. While the rewards of global growth are enticing, the path is fraught with obstacles that demand strategic navigation.

The paper commences by elucidating the motivations behind international expansion and the potential advantages it holds. It then dives into the pivotal challenges faced by entrepreneurs.

Key words: Entrepreneurs; International expansion; Challenges; Market Research.

CYBER SECURITY A DETAIL INSIGHT INTO INDIAN SMALL BUSINESSES

SHIBIN THOMAS, First year MBA Institute of Management & Commerce, Srinivas University, Mangalore

Prof. Ashwini and Prof. Dhanya K, MBA Department, Srinivas Institute of Technology, Mangaluru

ABSTRACT

This study examines the vital significance of cyber security for Indian small businesses. Small enterprises are essential to the growth of India's economy as it embraces Industry 4.0 and develops its digital infrastructure. They are, however, more and more vulnerable to cyber threats, which can result in monetary losses, reputational harm, and even corporate shutdown. In order to ensure sustainable growth and competitiveness in the digital age, this paper highlights the specific cyber security challenges faced by small industries in India as well as the possible negative effects of ignoring cyber security. It also makes a strong case for why these industries should priorities and invest in effective cyber security measures. Small businesses in India find themselves at the crossroads of enormous opportunity and severe obstacles in the fast-changing digital landscape of today. These tiny businesses are progressively turning into the top targets for cyber-attacks as the country moves forward with its digital transformation and economic growth. This study explores the need for Indian small businesses to priorities and embrace cyber security. It offers a thorough study of the particular cyber security problems they encounter, the possible repercussions of ignoring cyber security, and the strong arguments in favor of spending money on effective cyber security measures. Small businesses may preserve their operations and position themselves for sustained growth and competitiveness in the digital age by addressing these concerns.

Keywords: Infrastructure, vulnerable, reputational, competitiveness.

Revolutionizing Retail Finance: An In-Depth Analysis of the Buy Now, Pay Later Industry

Swaroop PG, Student

Mrs. Ashwini, Assistant Professor

Department of MBA, Srinivas Institute of Technology, Mangaluru.

Abstract

The Buy Now, Pay Later (BNPL) industry has witnessed remarkable growth in recent years, reshaping the landscape of consumer finance and e-commerce. This research report provides a comprehensive analysis of the BNPL industry, covering its evolution, market trends, regulatory environment, technological innovations, and impact on various industries, consumer advocacy, and ethical considerations.

The key findings of this report highlight the industry's exponential growth, global expansion, and technological advancements. It also underscores the importance of responsible lending, transparency, and consumer education in addressing ethical dilemmas and critiques of BNPL practices.

The implications of this research extend to businesses, consumers, and regulators. Businesses are encouraged to integrate BNPL options, prioritize responsible lending practices, and collaborate with retailers across sectors. Consumers are urged to exercise responsible borrowing and educate themselves about BNPL terms. Regulators are advised to establish clear regulatory frameworks that balance innovation with consumer protection.

Keywords: BNPL, Consumer Finance, Financial Technology (FinTech), Technological Innovations, Blockchain

CYBER SECURITY A DETAIL INSIGHT INTO INDIAN SMALL BUSINESSES

SHIBIN THOMAS, First year MBA Institute of Management & Commerce, Srinivas University, Mangalore

Prof.Ashwini and Prof. Dhanya K ,MBA Department, Srinivas Institute of Technology, Mangaluru

ABSTRACT

This study examines the vital significance of cyber security for Indian small businesses. Small enterprises are essential to the growth of India's economy as it embraces Industry 4.0 and develops its digital infrastructure. They are, however, more and more vulnerable to cyber threats, which can result in monetary losses, reputational harm, and even corporate shutdown. In order to ensure sustainable growth and competitiveness in the digital age, this paper highlights the specific cyber security challenges faced by small industries in India as well as the possible negative effects of ignoring cyber security. It also makes a strong case for why these industries should priorities and invest in effective cyber security measures. Small businesses in India find themselves at the crossroads of enormous opportunity and severe obstacles in the fast-changing digital landscape of today. These tiny businesses are progressively turning into the top targets for cyber-attacks as the country moves forward with its digital transformation and economic growth. This study explores the need for Indian small businesses to priorities and embrace cyber security. It offers a thorough study of the particular cyber security problems they encounter, the possible repercussions of ignoring cyber security, and the strong arguments in favor of spending money on effective cyber security measures. Small businesses may preserve their operations and position themselves for sustained growth and competitiveness in the digital age by addressing these concerns.

Keywords: Infrastructure, vulnerable, reputational, competitiveness.



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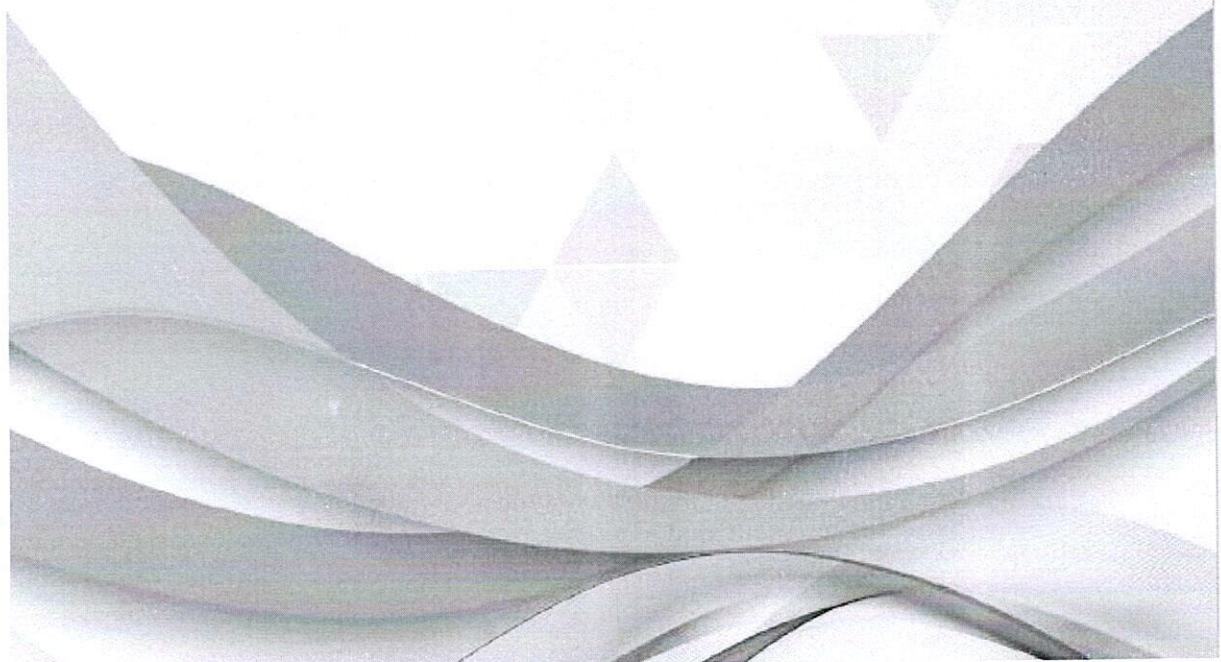


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ADVERTISEMENT DEMAND FORECASTING

Abhishek K¹, Dr. Shashidhar Kini K²
PG Scholar, Professor²

Department of MCA, Srinivas Institute of Technology, Mangaluru, India

Abstract

Business intelligence (BI) is essential in modern times to define technique and make great efforts to solve problems in the light of information. Business knowledge plays a key role in the inevitable emotional support network that enables information research and business endeavors. AI predicts the future requirements of businesses. One of the main dynamic tasks of a business is to receive requests. Raw transaction information is first obtained from the market for the request, and then future requests for transactions and items are made in accordance with this information. This forecast is based on collected information from various sources. The AI engine uses data from multiple modules to make decisions about weekly, monthly and quarterly requirements for goods and items. 92.38% for the retailer.

TOMATO LEAF DISEASE PREDICTION USING DEEP LEARNING

Aiswarya KV,¹ Dr. Shashidhar Kini K²
PG Scholar, Professor²

Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

Numerous illnesses that can negatively impact crop output and quality can damage tomato plants. For effective management and the reduction of possible losses, early detection and correct diagnosis of these disorders are essential. Deep learning approaches have demonstrated encouraging results in the diagnosis of plant diseases in recent years. The goal of this study is to create a model for tomato leaf disease prediction using deep learning techniques. a dataset of pictures of both healthy and diseased tomato leaves, including those with bacterial spot, early blight, and late blight. It is possible to teach the model discriminative features and patterns particular to various tomato leaf diseases by training it on a large number of annotated photos.

PLANT SPECIES DETECTION

Akash Naik¹, Prof. Dr. Shashidhar Kini K²
Professor,² PG Scholars¹

Department of MCA, Srinivas Institute of Technology, Mangaluru, Karnataka, India

Abstract

Plants not only sustain the ecosystem of the world but also give humans oxygen, food, medicine, and fuel. Because effective identification of plant species necessitates specialised knowledge and extensive training in botany, it is a highly difficult undertaking. Even for botanists themselves, identifying a species can be challenging. Therefore, the creation of an autonomous plant leaf recognition system is crucial. Since leaves are simpler to reach than other plant parts, many studies concentrate on leaf-based identification.

PREDICTING AIR POLLUTION LEVELIN A SPECIFIC CITY

Amrutha P N,¹ Dr. Shashidhar Kini K²
PG Scholar,¹ Professor ²
Department Of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

An important environmental hazard that has a negative impact on people's health and quality of life is air pollution. For the purpose of putting into action efficient mitigation plans and warning inhabitants about potential concerns, forecasting air pollution levels in particular cities is essential. In this paper, a machine learning-based method for forecasting air pollution levels in a particular city is presented.

FOOD REVIEW BAZAAR

Ananya B R¹, Dr.Shashidhar Kini²
Professor², PG Scholars¹
Department Of MCA,
Srinivas Institute Of Technology, Mangaluru, India

Abstract

Food Review Bazaar is a web application developed using the Django framework. It is a food review posting website, here users can Register or Login, and then add the reviews. Here user can like review, update their own profile, edit their posted review also can delete them. It includes the features such as login or signup, view all food items, add food items post and many more. It allows businesses to monitor feedback, respond to user inquiries, and maintain an active presence on the platform, fostering a constructive relationship with their clients.

SPEECH EMOTION RECOGNITION USING MACHINE LEARNING

Anushree K V,¹ Dr. Shashidhar Kini K²

Professor,² PG Scholars ¹

Department Of MCA,

Srinivas Institute Of Technology, Mangaluru, India

Abstract

Emotion recognition plays a crucial role in human communication and interaction. Understanding and accurately detecting emotions from speech signals have wide-ranging applications in fields such as human-computer interaction, virtual reality, psychology, and customer sentiment analysis. In recent years, machine learning techniques have shown promising results in automated emotion recognition from speech. This paper presents a comprehensive overview of speech emotion recognition using machine learning approaches. We explore the various stages involved in the emotion recognition pipeline, starting from speech data acquisition and preprocessing, feature extraction, and finally, classification using machine learning algorithms.

RECIPE GENERATOR USING MACHING LEARNING

B V Muhammed Adil Ahmed Rafeeqe¹, Dr. Shashidhar Kini K²
PG Scholar¹, Professor²
Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

Recipe generation is an emerging field that combines natural language processing, machine learning, and culinary knowledge to automatically generate recipes. The objective of this paper is to build a web application so as to cater to this specific problem faced by people. The proposed system takes ingredients as an input and gives machine generated recipes with the help of deep learning to the user. The recipe generated model will consist of title, ingredients and instruction reflecting the dataset used to prepare the model for deep learning. The system also consists of interactive features in the user interface enabling the user to save and access the generated recipe later on.

CUSTOMER SEGMENTATION

Sowrabh Chandra¹, Rajesh Naik²

PG Scholar, Professor ²

Department Of MCA,

Srinivas Institute Of Technology, Mangaluru, India

Abstract

Food waste has come a critical global issue, with significant within the system and generation of food waste due to profitable, environmental, and social counteraccusations. This abstract swiftly changing consumption patterns. In times of presents a comprehensive overview of strategies aimed at reducing food waste throughout the force chain, from product to consumption. extremity, it's especially important to conserve resources The purpose of this study is to punctuate the significance of espousing a and allocate being resources to areas where they can be methodical approach to attack this multifaceted problem. of utmost use, but this poses significant challenges.

BRAIN TUMOR DETECTION

Harshitha H¹, Dr. Shashidhar Kini K²
Professor², PG Scholars¹
Department Of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

A brain tumour is defined as the abnormal and uncontrolled proliferation of brain cells. The quality of a patient's life can be improved by finding such a tumour in its early stages. The focus of current techniques, which include segmentation and machine learning, is on classifying tumours according to their presence and identifying their size and location. In this study, we propose supervised learning on CNNs (Convolutional Neural Networks) along with data augmentation and image preprocessing on 2-D MRIs (Magnetic Resonance Imaging) to identify and categorise brain tumours into four groups: gliomas, meningiomas, pituitary tumours, and no tumours. These groups were picked because they account for the majority of the tumour types found. a CNN example with the highest accuracy of 96.26% on the validation set is studied and implemented.

CLIMATE ANALYSIS

Hithashree N¹, Dr. Shashidhar Kini K²
Professor,¹ PG Scholars²

Department Of MCA,
Srinivas Institute Of Technology, Mangaluru, India

Abstract

Using machine learning approaches, climate analysis aims to extract relevant knowledge and insights from climate data. It develops a model that can analyze and predict climate patterns and trends, enabling better weather forecasting and disaster prevention. Climate analysis has the ability to reveal hidden patterns, improve forecasts, and deepen our comprehension of climate processes. We can get important insights that help us address the problems caused by climate change by utilizing the potential of machine learning.

Keywords: Climate change, Global warming, Temperature Precipitation
Extreme weather events.

YOGA POSTURE CLASSIFICATION

Jeevan M R¹, Dr. Shashidhar Kini K²

Assistant Professor,² PG Scholars¹

Department of MCA ,

Srinivas Institute Of Technology, Mangaluru , India

Abstract

Yoga posture classification has become a central concern in modern society due to the increasing environmental impact of improper disposal and inefficient recycling practices. Manual sorting and waste identification involves a lot of work and is prone to errors. In this study, we offer a waste detection system based on deep learning techniques to automate pose identification and classification. It is a deep rooted issue in computer vision that has uncovered many challenges within the past. Analyzing human exercise is advantageous in numerous areas like video surveillance, biometrics, helped living, at-home wellbeing checking etc. With our fast-paced lives these days, individuals as a rule incline toward working out at domestic but feel the require of an teachers to evaluate their work out frame. As these assets are not continuously accessible, yoga posture acknowledgement can be used to construct a self-instruction work out framework that permits individuals to memorize and hone exercises correctly by themselves. This venture lays the establishment for building such a framework by discussing various machine learning and profound learning approaches to precisely classify yoga postures on prerecorded recordings conjointly in real-time. The extended too examines different posture estimation and keypoint discovery strategies in detail and clarifies diverse profound learning models utilized for posture classification.

PREDICTION AND CLASSIFICATION OF CARDIAC ARRHYTHMIA TYPE USING HYBRID APPROACH

Jeevitha M.S.¹, Dr. Shashidhar Kini K²
PG Scholar,¹ Professor²

Department of MCA, Srinivas Institute Of Technology , Mangluru , India

Abstract

Cardiac arrhythmia is a condition that affects how the heart beats. The incorrect heart issue may involve either a fast or sluggish heartbeat. This study offers a technique for identifying or forecasting the kind of disease that cardiac arrhythmias will produce. Both regression and a clustering approach are applied. As a hybrid strategy, stacking and the ensemble technique are applied. Using a hybrid approach, the entire dataset is separated into discrete clusters. The clusters that have been found to have fewer instances are then taken into consideration. The multiclass logistic regression method is applied to these clusters. This is due to the fact that clustering is an unsupervised process. To determine the kind of heart arrhythmia that is present, regression has been employed.

SMART SERVICE

Jenisha Jeswita Veigus,¹ Dr. Shashidhar Kini K²
PG Scholar,¹ Professor
Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

A Smart Service is a web based application that streamlines the process of registering and resolving customer complaints. It is an essential tool for organizations to effectively handle customer complaints and improve customer satisfaction. This highlights its role in enhancing customer experience and enabling organizations to address issues promptly. Smart Service provides a centralized platform for customers to submit their complaints through online forms. These complaints are then recorded in a database, along with relevant details such as the customer's contact information. Once a complaint is registered then it is directed to the appropriate department for handling types of issues.

CLASSIFICATION OF MALL'S CUSTOMERS BASED ON TYPE OF SHOPPING USING AI & ML

Kajal¹, Dr Shahidhar Kini K²

PG Scholar¹, Professor²

Department Of MCA,

Srinivas Institute of Technology, Manglore, India

Abstract

In carrying out successful E-commerce, the most important things are innovation and understanding what customer wants. Now-a-days ease of using ecommerce encourages the customers to buy using ecommerce. It runs on the basics of innovation having the ability to enthrall the customers with the products, but with such a large raft of products leave the customers confused of what to buy and what not to.

According to business, a company may create three segments like high (Group who buys often, spends more and visited the platform recently), Medium (Group which spends less than high group and is not that much frequent to visit the platform) and low (Group which is on the verge of churning out).

This is where a machine learning provides a crucial solution several algorithms are applied for revealing the hidden patterns in data for better decision making. In this paper we proposed a Customer Segmentation concept in which the customer bases of an establishment is divided into segments based on customer's characteristics and attributes. This idea can be used by the B2C companies to outperform the competition by developing uniquely appealing products and services and make it reach to potential customers. This approach is implemented using "k-means", an unsupervised clustering machine learning machine learning algorithm.

IRIS RECOGNITION USING MACHINE LEARNING

Kalpana Mahadev Gouda¹, Dr. Shashidhar Kini K²

PG Scholar¹, Professor²

Department Of MCA,

Srinivas Institute of Technology, Mangaluru, India

Abstract

The automated technique of identifying people based on their iris patterns is known as iris recognition. A cutting-edge biometric technology that intends to automate and enhance the precision of iris-based identification and authentication is the iris recognition system employing machine learning. This system leverages machine learning algorithms to analyze and identify individuals based on the unique patterns present in their irises. By employing a comprehensive methodology involving data collection, preprocessing, iris localization and segmentation, feature extraction, machine learning model selection and training, evaluation, and system integration, the system addresses challenges such as data variability, occlusions, and changes in lighting conditions.

Enroll-NET

Karthik R Shetty¹, Dr. Shashidhar Kini K²
Professor², PG Scholars¹
Department of MCA,
Srinivas Institute of Technology, Mangalore, India

Abstract

Enroll-NET is an innovative online college admission web application developed using the Django framework. This paper presents the design, development, and implementation of Enroll-NET, highlighting its key features, system architecture, and the benefits it offers to both applicants and administrators. The web app streamlines the admission process, simplifies application submission, enables document upload, facilitates application tracking, and provides a comprehensive administrator dashboard. Leveraging Django's robust features, Enroll-NET ensures scalability, security, and efficiency, transforming the college admission experience for all stakeholders.

SKY-BOX

Kartik Mangu Gouda¹, Dr. Shashidhar Kini K²
Professor², PG Scholars¹
Department of MCA,
Srinivas Institute Of Technology, Mangaluru, India

Abstract

The main purpose of developing "sky-box" is to provides organizations and individuals with scalable, secure, and cost-effective storage capabilities. And also to upload and downloading rapidly their personal data like video, audio, image, documents.

Data redundancy is frequently provided by cloud storage providers, ensuring data durability and protection against any hardware failures or calamities.

VISIONSAFE

Kavana K Nayak¹, Dr. Shashidhar Kini K²
PG Scholar¹, Assistant Professor²
Department of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

Hearing about the violent activities that occur on a daily basis around the world is quite overwhelming. Personal safety and social stability are seriously threatened by the violent activities. The whole system can be implemented with a sequence of procedures. Firstly, the system has to identify the presence of human beings in a video frame. Then, the frames which are predicted to contain violent activities has to be extracted. The irrelevant frames are to be dropped at this stage. Finally, the trained model detects violent behaviour and these frames are separately saved as images. These images are enhanced to detect faces of people involved in the activity, if possible. The enhanced images is sent as an alert to the concerned authority through email.

MOOD BASED MUSIC RECOMMENDATION SYSTEM

Kavyashree¹, Dr. Shashidhar Kini K²
PG Scholar¹, Professor ²
Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

The main aim of this project is a user's emotion or mood can be detected by his/her facial expressions. These facial expressions can be derived live from the system's camera. The Mood-based Music Recommendation System

CONF-JOIN

Kiran¹, Dr. Shashidhar Kini K²
PG Scholar¹, Professor ²

Srinivas Institute of Technology, Mangaluru, India

Abstract

The aim of Conf-Join is to innovate ideas and new information can be exchanged between people of common interests .Feature of this project is to have discussion, problem solving and consultation

STYLE TRANSFER GAN Model

Lavanya MS¹, Dr. Shashidhar Kini K²
PG Scholar¹, Professor²

Department Of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

Style transfer using Generative Adversarial Networks (GANs) has emerged as a powerful technique for transforming the style of an image while preserving its content. This project aims to explore and implement a GAN-based approach for style transfer, enabling users to apply artistic styles from one image to another.

RECONSTRUCTING THE IMAGES

Mahalakshmi¹, Dr. Shashidhar Kini K²
Professor², PG Scholars¹

Department of MCA, Srinivas Institute of Technology, Mangaluru, India

Abstract

In several disciplines, including computer vision, image processing, and computer graphics, picture reconstruction is essential. In order to enhance the visual quality of the photos, extract valuable information, and facilitate precise analysis, the procedure entails restoration and enhancement of damaged or degraded photographs. The introduction of the abstract describes the goals of image reconstruction and emphasizes the importance of this technique in areas including forensic investigations, medical imaging, historical preservation, and multimedia applications.

IMAGE TO AUDIO CONVERSION USING MACHINE LEARNING

Mahesh Timmanna Hegde¹, Dr. Shashidhar Kini K²
Professor, PG Scholars¹
Department of MCA,
Srinivas Institute of Technology, India

Abstract

Image text-to-audio conversion is an innovative research area that aims to convert textual information present in images into audible speech. This project proposes a comprehensive approach to tackle this challenge using machine learning techniques. By leveraging advancements in computer vision and speech synthesis, the system can automatically extract and transform text from images into high-quality audio output.

PREDICTING CUSTOMER LIFE TIME VALUE

Manish Naik, Dr.¹Shashidhar Kini²

Professor², PG Scholars¹

Department of MCA,

Srinivas Institute of Technology, Mangaluru, India

Abstract

Customer Lifetime Value (CLV) prediction plays a crucial role in modern business strategies, enabling organizations to make data-driven decisions regarding customer acquisition, retention, and marketing efforts. This report explores the application of machine learning techniques for CLV prediction and provides insights into its practical implications.

The report begins with an introduction to CLV and its significance in marketing and customer relationship management. A comprehensive literature review highlights the current research and best practices in CLV prediction using machine learning.

There is a fierce competition in the telecom sector that is prompting the companies to invest heavily on marketing including acquiring new customers. But to be truly profitable, it is crucial not only to attract new customers, but to make sure old customers are retained with the company for as long time as possible. This turns the focus on customer lifetime value (CLTV). Knowing what drives CLTV gives ideas of what is best to invest in, and this information can be very valuable for the telecom company in designing their marketing strategy [1]. Many companies are now considering changing their marketing approach from Product centric to Customer-centric. For this approach to work, it is essential to understand each customer's worth or value, which then helps focus the resources on targeted marketing. The purpose of this project is to Analyze the

Customer sales data of the company and predict the Customer lifetime value. Based on the predicted CLTV, customer segmentation is done to determine focus groups. The goal of this project is to provide a guide for marketing decision making and planning marketing strategies and plans for future, using a machine learning models to predict customer lifetime values and segmentation

HANDWRITTEN DIGITRECOGNITION

Mohinisree¹, Dr Shashidhar Kini K²

Professor, PG Scholars

Department of MCA, Srinivas Institute of Technology, Mangaluru, India

Abstract

One of the very significant problems in pattern recognition applications is the recognition of handwritten digits. Building an automatic handwritten digit recognition system is the major goal of this project, which will be used to recognise handwritten digit strings. The segmentation of the digits into separate digits is the first step in completing the recognition challenge. The handwritten digit string recognition challenge is then completed using a digit recognition module to categorise each segmented digit.

IMAGE CAPTION GENERATOR USING DEEP LEARNING

Nandhitha Unnikrishnan¹, Dr. Shashidhar² Kini
Professor², PG Scholars¹
Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

The Image Caption Generator using Deep Learning project aims to develop a system that automatically generates captions for images, providing a human-like understanding of visual content. Leveraging the power of deep learning techniques, the proposed system combines computer vision and natural language processing to bridge the gap between visual perception and textual comprehension. The project utilizes convolutional neural networks (CNNs) to extract meaningful visual features from input images. These CNN-based models are trained on large-scale image datasets, enabling them to identify objects, shapes, and patterns within images effectively. The extracted visual features serve as rich representations of the visual content and act as input to the subsequent caption generation module.

MULTI AGENT SYSTEM TO PREVENT MALNUTRITION

Nidhi NS,² Dr. Shashidhar kin¹
Professor,² PG Scholars¹

Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

The application's goal is to eliminate childhood malnutrition by developing a new system that works with e-government efforts and makes use of agent technology and data mining techniques (such rule-based classification). The economic growth of a nation is significantly hampered by hunger. When given sufficiently big, pertinent, and representative data sets, the data mining approach has a tremendous deal of potential for revealing the linkages that cause malnutrition. Malnutrition diseases are currently one of the most important topics being examined by our society. The number of patients with malnutrition or over nutrition illnesses grows gradually but never decreases. Additionally, this type of illness results in over 500,000 deaths in India.

ONLINE NEWS

Nikhil K¹, Dr. Shashidhar Kini K²
PG Scholar¹, Professor²
Department of MCA,
Srinivas Institute of Technology, India

Abstract

The purpose of the online environment is to meet their needs using the existing manuals with the help of computer equipment and computer software, so that useful information / data can be stored for a longer time easy access and Operation is the same. The required software and hardware are simple and the is easy to use. Online newsletters like mentioned above can provide error-free, secure, reliable and fast management. helps users focus on other activities instead of focusing on data storage.

FUSION FARE: A MULTI VENDOR E-COMMERCE SITE

Nishmitha D P¹, Dr. Shashidhar Kini K²

PG Scholar¹, Professor ²

Department of MCA,

Srinivas Institute of Technology, Mangaluru, India

Abstract

A multi-vendor marketplace called "FUSION FARE" enables traders to sell their goods by establishing a dedicated storefront. Nowadays, internet e-commerce sites that are often used for online purchasing are growing in popularity. Nowadays, everyone is more likely to purchase goods online because there are more discounts, product reviews, and product ratings available. For a single user feature input set for a user-interested product, a vast number of alternatives are obtained, leading to large amounts of information.

FACE ANONYMIZATION USING MACHINE LEARNING

Pawan Chandra N,¹ Prof.Dr. Shahidhar Kini K²
PG Scholars,¹ Professor²
Department of MCA
Srinivas Institute of Technology, Mangaluru, India

Abstract

The possibility of privacy invasion caused by the identification of specific people in visual data has grown increasingly urgent in light of the widespread use of digital cameras, social media platforms, and surveillance systems. By masking or eliminating recognizable facial features from photos or videos, face anonymization techniques have become a promising way to protect privacy by preventing the direct association of people with their visual representations. An overview of face anonymization techniques and their importance in protecting privacy in various domains are presented in this abstract. We examine the fundamental ideas and difficulties surrounding face anonymization, such as facial detection and recognition, resilience to de-anonymization attacks, and the harmony between maintaining the usefulness of visual data while protecting privacy.

SOCIAL MEDIA ADS CLASSIFICATION

Pooja G Yemmi,¹ Prof. Rajesh Naik²
PG Scholar,¹ Assistant Professor²

Department of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

Media advertising is a important tool for businesses of all sizes. still, it can be delicate to know which advertisements will be most effective. Machine literacy can be used to classify social media advertisements grounded on a variety of factors, including the target followership, the content of the announcement, and the time of day it's shown. This can help businesses to target their advertisements more effectively and to ameliorate their return on investment. Social media is forming an decreasingly central part of how companies communicate their marketing strategies to their guests and it provides an empirical analysis of the impact social media communication has on brand equity and purchase intention. The end is to probe given social announcement datasets by unsupervised machine literacystyles like K- Means and to prognosticate whether a stoner bought a particular product or not on socialmedia network announcement.

SMS SPAM DETECTION

Prajwal Bandekar¹, Prof. Rajesh Naik²
Assistant Professor,² PG Scholars¹
Department of MCA,
Srinivas Institute of Technology, Mangalore, India

Abstract

Today's mobile phone users must deal with the issue of spam SMS (Short Message Service). When a user's mobile phone is overrun with spam SMS, important and real messages may be missed. Because of spam SMS, users can become victims of phishing and fraud. Thus, it is necessary to distinguish between spam and legitimate SMS. In this study, the Naive Bayes algorithm was used to identify SMS spam.

STUDENT PERFORMANCE TRACKER

Priya¹, Prof. Rajesh Naik²
PG Scholar, Assistant Professor²
Department of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

The student performance tracker is a comprehensive system designed to monitor and evaluate the academic progress and achievements of students. It provides a centralized platform for collecting, analyzing, and presenting data related to student performance, including grades, attendance, and behavioral indicators. The tracker incorporates various assessment tools and methodologies to measure student learning outcomes and identify areas of improvement. It offers real-time feedback and personalized insights to students, parents, and educators, enabling them to track individual progress and make data-driven decisions to enhance student success. The student performance tracker aims to foster a collaborative and supportive environment that promotes student engagement, motivation, and continuous improvement in educational settings.

HOTEL REVIEW CLASSIFICATION

Priya Kamath¹, Prof. Rajesh Naik²
PG Scholar¹, Professor²

Department of MCA, Srinivas Institute of Technology, Mangaluru, India

Abstract

Hotel review classification aims to develop a machine learning model that can accurately classify hotel reviews into different sentiment categories, such as positive, negative, or neutral. By automating the classification process, the goal is to extract meaningful insights from the large volume of unstructured textual data available on online review platforms. This classification can help hotel owners and managers monitor customer satisfaction, identify areas for improvement, and make data-driven decisions to enhance the overall guest experience. Additionally, the classification model can assist potential guests in making informed decisions by providing them with an overview of the sentiment associated with a particular hotel.

MEDICAL IMAGING ANALYSIS

Ranjitha V E,¹ Prof. Rajesh Naik ²
Assistant Professor,² PG Scholars¹

Department Of MCA, Srinivas Institute Of Technology, Mangaluru, India

Abstract

Medical imaging analysis plays a crucial role in the field of healthcare, enabling the accurate diagnosis and treatment of various medical conditions. This branch of medical science involves the interpretation and analysis of images generated through modalities such as X-ray, computed tomography (CT), magnetic resonance imaging (MRI), and ultrasound. The abstract of medical imaging analysis encompasses the application of advanced algorithms and techniques to extract meaningful information from these images, aiding in the detection, characterization, and quantification of anatomical structures, physiological functions, and pathological abnormalities. By utilizing image processing, pattern recognition, and machine learning methods, medical imaging analysis enables the identification of biomarkers, the assessment of disease progression, and the evaluation of treatment outcomes. The abstract of medical imaging analysis serves as a foundation for developing computer-aided diagnosis systems, improving image quality, enhancing visualization techniques, and advancing personalized medicine.

DIET PLANNING SYSTEM

Ravina Rujar Fernandes¹, Prof .Rajesh Naik²
PG Scholar, Assistant Professor²
Department Of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

Diet Planning is a regular activity of humans. Many studies have considered diet planning as a problem to get solutions that satisfy the diets with nutrition. The necessity of diet planning is done with machine learning. A balanced diet is based on height, weight, and age to lead a healthy life. Physical activity can maintain our healthy weight to reduce the risk of disease. Calories in the food are the total amount of energy that is stored in the food. So, these calories are used in breathing, walking, running, or any other activities. A person needs 2000 calories per day and the calories that we consume depend upon the person's physical aspects such as height, weight, age, and gender. So the food that you serve today, and tomorrow affects your life. Thus, this proposed system recommends you a diet based on physical aspects.

TEXT SUMMARIZATION

Sagar H¹, Dr. Rajesh Naik²
Assistant Professor², PG Scholars¹
Department Of MCA,

Srinivas Institute Of Technology, Mangaluru, Karnataka, India

Abstract

There are two primary approaches to text summarization: extractive summarization and abstractive summarization. In this paraphrase, we will discuss the abstractive summarization approach, which entails generating summaries that can include rephrased sentences or novel phrases not found in the original text. Let's provide a brief overview of the process involved in abstract text summarization.

POLITICAL SENTIMENT ANALYSIS

Sahana Balakrishna Gudimane¹, Rajesh Naik²
PG Scholars¹, Assistant Professor²

Department of MCA, Visvesvaraya Technological University,
Srinivas Institute of Technology, Mangaluru, India

Abstract

Sentiment Analysis is a vital research topic in the field of Computer Science. With the accelerated development of Information Technology and social networks, a massive amount of data related to comment texts has been generated on web applications or social media platforms like Twitter.

AMAZON ALEXA REVIEW SENTIMENT ANALYSIS MEDIA USING MACHINE LEARNING

Sahil, Prof .Rajesh Naik²
PG Scholar,¹ Assistant Professor²
Department Of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

Due to the popularity of online marketplaces over the past few decades, online vendors and merchants now routinely request feedback from their customers. Millions of reviews are produced daily as a result, making it challenging for potential customers to decide whether to purchase the goods wisely. For product manufacturers, it is challenging and time-consuming to analyse this massive volume of opinions. The challenge of categorising reviews according to their general semantic content (positive or negative) is examined in this thesis. SVM and Nave Bayes, two different supervised machine learning approaches, have been tested on Amazon's selection of cosmetics in this study. Then, their accuracy levels were contrasted.

HATE SPEECH RECOGNITION USING NATURAL LANGUAGE

Sampath Shridhar Naik¹, Prof. Rajesh Naik²
Assistant Professor², PG Scholars¹
Department of MCA
Srinivas Institute of Technology, Mangaluru, India

Abstract

Hate speech is now getting a lot of attention in the social media arena. Anonymity and ease of payment over the Internet make it easy for users to communicate radically. As amount of online hate speech grows, automated processes are required to detect the hate speech. In addition, these problems have received a lot of attention from the natural language processing and machine learning communities. Therefore, the aim of this project is to examine how natural language processing can be used to detect hate speech. In addition, current methods are used in field of information in the project. Discrimination against people or society.

Therefore, hate speech should not be used. Hate speech is very common on these platforms due to increasing use of social media. Therefore, a handbook on the hate speech is not possible.

INDIAN FOOD CLASSIFICATION

Sanketh K R¹, PROF Rajesh Naik²
PG Scholar¹, Assistant Professor²

Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

These days, standard admissions of solid nourishment is vital for keeping a adjusted count calories to maintain a strategic distance from wellbeing issues within the human body. This extend proposes a nourishment acknowledgment framework that employments a convolution neural arrange as a base model for image expectation and after that returns sustenance actualities such as calories within the given single nourishment picture. Knowing the nourishment substance of the nourishment that we are devouring makes a difference in keeping up adjusted eat less. Firstly, we have arranged to prepare and optimize a CNN, state-of-art show utilizing TensorFlow, we are utilizing CNN as the convolution layers are change able and simple to actualize. Moment, we adjust our demonstrate with GUI highlights as well as sustenance investigation.

BREAST CANCER USING DEEP LEARNING

Satyam Kumar¹, Prof. Rajesh Naik²

PG Scholar¹, Assistant Professor²

Department of MCA,

Srinivas Institute of Technology, Mangalore ,India

Abstract

This paper provides a concise overview of deep learning techniques in the context of breast cancer detection. Deep learning models, including convolutional neural networks (CNNs), recurrent neural networks (RNNs), and deep belief networks (DBNs), have shown promise in analyzing medical imaging data for breast cancer classification and prognosis. The advantages of deep learning, such as feature extraction and superior performance, are discussed, along with challenges such as dataset size and interpretability. Integration with clinical data and the potential for improving diagnosis and treatment decision-making are also explored. Overall, deep learning holds significant potential for advancing breast cancer research and clinical practice.

STOCK PRICE PREDICTION

Shamanth Hegde¹, Prof. Rajesh Naik²

PG Scholar¹, Assistant Professor²

Department of MCA, Srinivas Institute of Technology Mangaluru, India

Abstract

Due to the tremendous volatility of the financial markets, there is a great deal of uncertainty and risk involved. This paper presents an innovative method to predict next day closing prices of stocks using combination of deep learning approach using Long Short-Term Memory (LSTM), architecture of Recurrent Neural Networks (RNN), Auto Regressive Integrated Moving Average (ARIMA) time series model to predict next day closing prices of stocks. To get the final prediction, these models have been merged in a feed-forward neural network. This way of integrating various techniques is known as "ensemble learning," which typically provides more accuracy than utilizing individual models

DEPRESSION CLASSIFICATION

Sharanya Salian¹, Prof. Rajesh Naik²

PG Scholar¹, Assistant Professor²

Srinivas Institute of Technology, Mangaluru, India

Abstract

Depression is a prevalent mental health disorder that affects a significant portion of the global population. With the advent of machine learning and the abundance of user data available, there is a growing interest in leveraging this data to improve the classification of depression. This paper explores the application of machine learning techniques to classify depression using user data. The benefits of using user data in depression classification include the ability to integrate multiple modalities of data for a comprehensive understanding of an individual's mental health state. The findings of this study contribute to the growing body of research on depression classification using user data in machine learning. The results demonstrate the potential for developing accurate and efficient models that assist healthcare professionals in providing timely and targeted support to individuals suffering from depression.

WASTE DETECTION USING DEEP LEARNING

Mr. Sheethal P P¹, Dr. Shashidhar Kini K²
PG Scholar, Professor
Department of MCA,
Srinivas Institute of Technology, Mangalore ,India

Abstract

Waste management has become a central concern in modern society because of the increasing environmental impact of improper disposal and inefficient recycling practices. Manual sorting and garbage identification are time-consuming and error-prone. We provide a waste detection system based on deep learning approaches to automate waste identification and classification in this work. The proposed system uses convolutional neural networks (CNN) to extract significant features of waste images. A data set consisting of various categories of waste, such as plastic, paper, glass, and metal, is collected and pre-processed to form the CNN model. Transfer learning is used to exploit the knowledge gained from pre-formed models. As a result, the system can attain greater precision with less tagged data. This research contributes to the development of an automated waste detection system using deep learning techniques that offer a promising solution to improve waste management practices. This technology has the potential to expedite waste sorting procedures, increase efficient recycling, and reduce the environmental impact of inappropriate garbage disposal.

E-Elect

Shreya Shetty¹, Prof. Rajesh Naik²
Assistant Professor², PG Scholars¹

Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

Student elections play a crucial role in educational institutions, allowing students to elect their representatives and participate in the decision-making process. To streamline the election process and enhance efficiency, this paper presents the development of a Student Election Application using the Django framework.

E-Elect provides a user-friendly interface for students to cast their votes securely and ensures transparency in the overall election process. The paper discusses the system architecture, design principles, and implementation details of the application, highlighting the integration of Django's powerful features such as user authentication, database management, and form handling. Additionally, the paper evaluates the application's performance and security aspects, showcasing its effectiveness in conducting student elections.

FAKE NEWS CLASSIFICATION

Shubham Hiremath¹, Prof. Rajesh Naik²

Assistant Professor,² PG Scholars¹

Department of MCA ,

Srinivas Institute of Technology, Mangaluru, India

Abstract

One of the most common wonder that affects our social lives is fake news. Due to users' extensive use of the internet, creating false information has become relatively easy these days. is a serious issue since it has the ability to cause a wide range of social harm. In this essay, we may assess research on the recognition of false information. We will select the best version for detecting true or false information using system studying methods. The final product will show how accurate the dataset was. We can apply supervised learning techniques in this work, such as Logistic Regression, svm, Naive Bayes, etc.

The inquire about on wrong news recognizable proof is dissected in this paper, and the finest classical machine learning models are examined in arrange to construct a product model with supervised machine learning algorithm that can categorise erroneous information as true or false by using textual analysis software like Python's scikit-learn. We suggest utilising the Python scikit-learn module to perform tokenization and feature extraction of text data because it provides practical tools like the Count Vectorizer and Tiff Vectorizer. This approach will result in feature extraction and vectorization. Then, based on the results of the confusion matrix, we will use feature selection techniques to experiment and select the best-fit features to get the highest precision.

JOURNAL MANAGEMENT SYSTEM

Shubham Kamate¹, Rajesh Naik²
Assistant Professor,² PG Scholars¹
Department of MCA

Srinivas Institute of Technology ,Mangaluru,Karnataka,India

Abstract

This project research, named "Online JournalSystems," aims to use the computer system's powerful potential to address many of the problems that the existing manual system of journal and publication procedures confront. The automation of the submission, approval, payment, and publication processes is just one of its many advantages.

PLAY SPHERE

Shwetha K P,¹ Rajesh Naik²

PG Scholar,¹ Assistant Professor²

Department of MCA, Srinivas Institute of Technology, Mangaluru, India

Abstract

The Play Sphere Project is a web application developed using the Django framework. The project aims to provide an online platform for users to browse and purchase games. It incorporates features such as user registration, game listing, shopping cart functionality, and secure payment processing and is also able to share the high score to their social media.

The project utilizes Django's MVC (Model-View-Controller) architecture to ensure the separation of concerns and maintainable code. The models are designed to represent entities such as users, games, orders, and payments. The views handle user interactions and render the appropriate templates, while the controllers handle business logic and data manipulation.

ONLINE SCHOOL MANAGEMENT

Sowjanya¹, Prof. Rajesh Naik²

PG Scholar¹, Professor²

Department Of MCA,

Srinivas Institute of Technology Mangaluru, India

Abstract

The online school management system is designed to consolidate and automate many more administrative assignments and performs actions with respect to the educational institutions which ranges from elementary schools to higher medium schools.

Necessary student information such as student personal details, attendance records of students, academic progress report of students, and exam results of students can be stored securely and safely and accessed with only a few clicks.

FOOD WASTE REDUCTION

Chandrashekar M,¹ Dr. Shashidhar Kini K²
PG Scholar,¹ Professor ²
Department Of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

The Customer segmentation design aims to dissect and classify guests grounded on their unique characteristics, actions, and preferences. By dividing the Customer base into distinct parts, the design seeks to gain precious perceptivity into Customer groups, enabling targeted marketing strategies and substantiated gests .

SOIL ANALYSIS AND CROP RECOMMENDATION

Srinivas T N,¹ Prof. Rajesh Naik²
PG Scholar¹, Assistant Professor²
Department of MCA,

Srinivas Institute of Technology Mangaluru, India

Abstract

India's agriculture division is provided picture of the soil and classify it noteworthy. It is essential for the Indian economy's survival and development. India could be a significant producer of numerous diverse rural merchandise. Within the handle of developing crops, soil is vital. A non- renewable, dynamic natural asset required for life is soil. The choice of the proper trim based on desires of the soil may be a common issue confronted by youthful Indian agriculturists. They involvement a noteworthy decrease in productivity as a result. Prior edit development utilized to be done by agriculturists with commonsense encounter. Based on the qualities and properties of the soil, ranchers are not able to choose the perfect trim. Subsequently, a suggestion framework that employments a

machine learning calculation to recommend the edit that can be gathered in that particular soil has been created. Within the proposed framework, we handle the user- into one of four classifications of soil: Ruddy, Alluvial, Dark, and Clay. A MobileNetV2 Engineering show finishes this. A few crops that can be developed in that soil sort are prescribed when the soil sort is forecasted. In order to expect the list of crops that would develop well in a given soil, our proposed framework maps the soil and edit information. As a result, the ranchers will discover our proposed strategy valuable in making a difference them select the correct crops for their soil and in teaching unpracticed ranchers. Our proposed framework accomplished Preparing precision of 97.34% and approval precision of 99.21%.

CYBERBULLYING DETECTION ON SOCIAL MEDIA USING MACHINE LEARNING

Steevan Pinto¹, Prof .Rajesh Naik²
PG Scholar,¹ Assistant Professor²

Department Of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

The cyberbullying detection on social media using machine Learning project aims to develop a system that detects if any hate is spread in social media like Sending or posting hateful or abusive comments with an intention to harm the character of an individual Posting an inappropriate image or video. Creation of a false or improper website. the act of threatening someone online with self-harm or suicide. posting hateful comments to stir up religious, racial, ethnic, or political animosity online.

Cyberbullying is bullying that occurs via electronic messages. Bullies can use social media platforms as a rich environment to launch attacks against their victims. Finding appropriate measures to identify and stop cyberbullying is necessary given the effects it has on victims.

HEALTH CARE MANAGEMENT

Sthuthi P¹, Prof.Rajesh Naik²
Assistant Professor², PG Scholars¹
Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

The goal of health care management comprises patient registration, entering their data into the systems, and automated billing in the labs and pharmacy. Our program can automatically store the information of every staff member and provide a unique ID for various patients.

PERSONALITY PREDICTION BASED ON HANDWRITING

Sushumna S Rao¹, Prof. Rajesh Naik²
Assistant Professor, PG Scholars ¹

Department Of MCA, Srinivas Institute Of Technology, Mangaluru, India

Abstract

Each person's handwriting is as different as a fingerprint. With just a few words, someone can duplicate someone else's handwriting and make it unique. Various aspects of handwriting are considered Skew, baseline, top margin, character size, line spacing, character spacing, sentence left/right, normal or irregular slant, and more. Based on the above handwriting styles, the whole system scores the handwriting samples.

TRAFFIC CONGESTION DETECTION

Swathi K,¹ Prof .Rajesh Naik²
PG Scholar,¹ Assistant Professor²
Department Of MCA,
Srinivas Institute of Technology Mangaluru, India

Abstract

Urban regions suffer by the problem of traffic congestion, which results in significant delays, financial losses, and negative environmental effects. It is essential for efficient traffic management and raising all aspects of transportation efficiency to identify and forecast congestion patterns. Using real-time traffic data and predictive modelling methods, this project intends to create a machine learning-based system for detecting traffic congestion. The application of ML in traffic congestion detection involves the analysis and model of large volumes of heterogeneous traffic data collected from various sources, including traffic sensors, surveillance cameras, and mobile devices. These data sources provide valuable information about traffic flow, speed, density, and other relevant parameters.

HAND GESTURE CONTROLLED VIRTUAL MOUSE

Prof. Rajesh Naik¹ Vaibhav Naik²
Assistant Professor,¹ PG Scholars²

Department of MCA,
Srinivas Institute of Technology, Mangaluru, India

Abstract

The development of artificial intelligence technologies has led to a rise in the use of gesture recognition for virtual device control. This article introduces a virtual mouse controlled by annotations that recognises gestures and converts them into mouse movements using an artificial intelligence system. The technology was designed to give people who have problems using a mouse or keyboard an alternative interface. The system intends to use the camera to take a picture of the user's hand, which will then be analysed by an AI algorithm to determine the user's hand's motion. A feature-based method was used to train the system to recognise various behaviours. When the pointer is recognised, the relevant mouse movement is translated and then carried out on the virtual screen. The system is made to be versatile and adaptive to a wide range of settings and gadgets. With the help of voice assistance and dynamic/static movements, all inputs can be successfully controlled. In our work, we employ computer vision and machine learning techniques to recognise gestures and vocal instructions without the usage of additional hardware. CNN and the mediapipe framework are used to put the model into practise. The technology can be used to give an alternate connection to hardware mice and to enable hands-free operation of devices in dangerous environments. In general, motion-controlled virtual mouse technology presents an excellent method for enhancing accessibility and the user experience.

RECOMMENDATION OF MOBILE PHONES BASED ON USERS BUDGET USING MACHINE LEARNING

Varshini D Kanchan,¹ Prof. Rajesh Naik ²
PG Scholar,¹ Assistant Professor ²

Department of MCA,
Srinivas Institute of Technology, Mangalore, India

Abstract

The aim of Mobile phones recommendation is to by gather and analyze the data. In order to create a recommendation system that takes into account both financial restrictions and user preferences. User will be able to input their preferences and costs using an intuitive interface, and the system will show recommendations that are appropriate. The goal is to give people personalized, optimized mobile phone recommendations that match their spending boundaries and desired features.

PREDICTIVE MODELING

Vikshitha V M¹, Prof .Rajesh Naik²
PG Scholar, Assistant Professor²

Department Of MCA,Srinivas Institute Of Technology , Manglore ,India

Abstract

The goal of this project is to improve early disease detection, optimize treatment plans, and support healthcare professionals in providing personalized care. Predictive models have become important tools for early detection, prognosis and intervention planning due to the availability of huge volumes of medical data and improvements in machine learning techniques.

The abstract emphasizes the importance of early detection and proactive management in the field of healthcare. Emphasizes how predictive modeling can be used to create models that can predict the likelihood of disease occurrence, progression, or response to treatment using historical patient data, medical records, genetic data, environmental factors, and other important variables. This article presents the evolution of predictive modeling in healthcare and disease using machine learning

SKIN DISEASE IDENTIFICATION

Yashwini,¹ Prof. Rajesh Naik²
Assistant Professor, PG Scholars¹
Department of MCA,

Srinivas Institute of Technology, Mangaluru, India

Abstract

Numerous internal and external variables can affect the skin. An individual's immune system, genetic abnormalities, chemical exposure, accidental viral exposure, and artificial skin damage are some of the variables that affect skin disorders. Therefore, it becomes important and required to provide effective methods for identifying and diagnosing skin disease symptoms at an early stage. This abstract presents an overview of a comprehensive approach for skin disease identification using ML algorithms. The proposed methodology utilizes a dataset comprising images of various skin diseases.



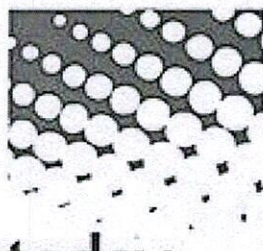
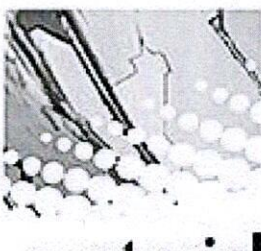
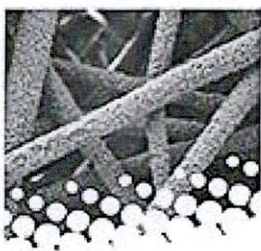
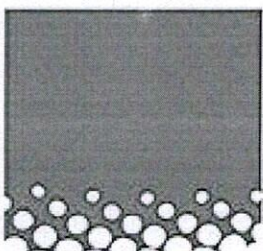
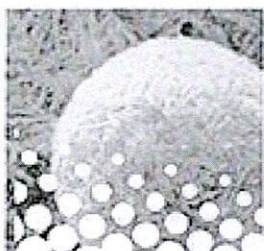
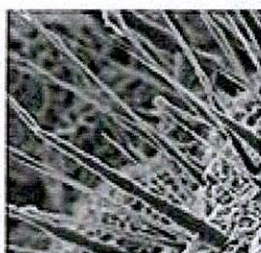
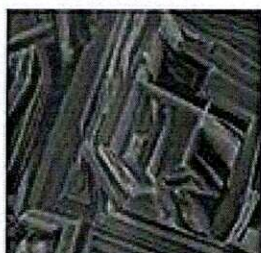
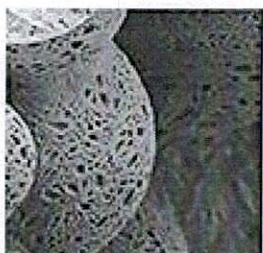
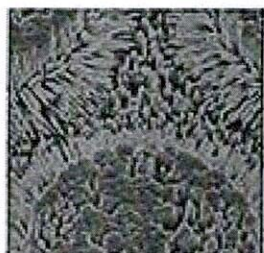
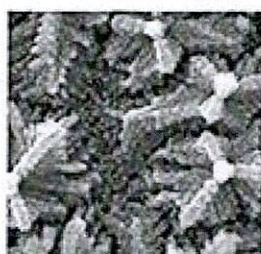
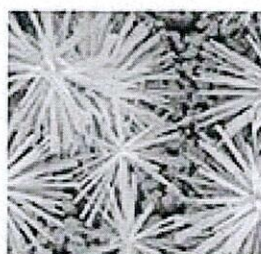
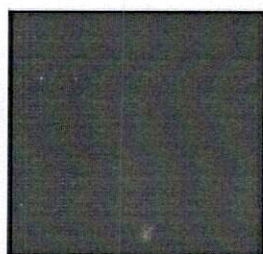
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Impact of fibre orientation on mechanical properties of GFRP composites

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Impact of fibre orientation on mechanical properties of GFRP composites

H.S. Sharath Chandra^a , K.S. Lokesh Mr Lokesh^b , G. Ravindra Babu Mr Ravindra^c ,
D. Shrinivasa Mayya Dr Shrinivasa^b , J.R. Naveen Kumar Dr Naveen^d

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Abstract

Knowing the characteristics of a composite material under a given set of circumstances is

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Analysis of design parameters of fuel injector used in liquid propellant rocket engine

Raghavendra Pai, KS Lokesh, D Shrinivasa Mayya, HG Vidyashree, ... KK Sagar

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Shamli Guleria, Lalita Chopra, Manikanika

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Analysis of design parameters of fuel injector used in liquid propellant rocket engine

Raghavendra Pai ^a, Lokesh KS ^b , Shrinivasa Mayya D ^b, Vidyashree HG ^b, Yallappa RK ^b, Jayashree J ^b, Neha KU ^b, Sagar KK ^b

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Abstract

Social Media Marketing for Sustainability: Literature Review

Rashmi, Research Scholar, Assistant Professor, MBA Department, Srinivas Institute of Technology,
Mangalore, Karnataka. E-mail: rashmi.mba702@gmail.com

Dr.S.J. Ajoy, Research co supervisor and Head, MBA department, Srinivas Institute of Technology,
Mangalore, Karnataka. E-mail: ajoysj@gmail.com

Dr.D. Shrinivasa Mayya, Research Supervisor, and Principal, Srinivas Institute of Technology, Mangalore,
Karnataka. E-mail: srinmayya@gmail.com

Abstract--- The field of digital marketing is constantly developing; digital marketing is performed using social media marketing tools and today social media plays a vital role in the marketing. Currently, many business firms require rigorous marketing following the COVID-19 outbreak, and many rely on social media for sustainability. As a relatively new arena, social media has piqued researchers' curiosity in its potential role in marketing and sustainability. The research is conducted with the objective of studying the marketing sustainability and the paper intends to highlight the factors that influence the adoption of social media marketing for sustainability through rigorous literature analysis.

Keyword--- Digital Marketing, Marketing Sustainability, Social Media, Social Media Marketing.

THE SOCIAL MEDIA INFLUENCERS INFLUENCING THE CHOICE OF TRAVEL DESTINATION: A NEW TREND

Rashmi, Research scholar
Dr. Shrinivasa Mayya D. Research supervisor
Dr. Ajoy S Joseph, Research co supervisor
Srinivas Institute of Technology, Valachil, Mangaluru

Abstract

In the contemporary landscape of digital marketing, a transformative trend has emerged, reshaping the way business connects with the large target audience. The rising influence of social media influencers (SMIs) is progressively shaping the consumers buying behavior characterized by authenticity, trust and direct engagement. Influencers convey marketing messages through native advertising format. The use of social media has transformed how people and businesses interact in various domains such as education, hospitality, tourism, banking, fashion and retail. People can share their ideas, content, thoughts and relationships online through social media (networks). Unlike traditional media, social media allows anyone to create and distribute content through text, sound, video, image and community enabling direct and targeted communication with potential customers, without the need for intermediaries like traditional media making it no longer effective. This paper aims at finding. The study also aims at developing a theoretical model that finds the impact of social media influencers on travel destination choice.

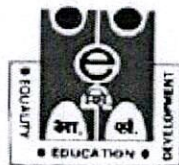
Keywords: Consumers buying behavior, digital marketing, social media, social media influencers, transformative trend (SMIs).

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**A STUDY ON GENDER PERSPECTIVE OF LEVEL OF DIFFICULTY IN ACCESSING
AND KNOWING THE PROCESS OF MICROFINANCE IN DAKSHINA KANNADA
DISTRICT**

Mr. Praveena D, Assistant Professor, Dept of B. Voc in Retail & Supply Chain Management, SDM College (Autonomous), Ujire. Email Id: pravi1988@sdmcujire.in
Dr. Shrinivasa Mayya D, Principal, Srinivas Institute of Technology, affiliated to VTU University Valachil, Mangaluru Email Id: srinayya@gmail.com
Dr. Ajoy S Joseph, Professor, HOD, Department of MBA, Srinivas Institute of Technology, affiliated to VTU University Valachil, Mangaluru Email Id: ajoysj@gmail.com

Abstract

This study investigates the gender perspective on the challenges faced by individuals in accessing and comprehending the microfinance process in Dakshina Kannada district. Microfinance has emerged as a crucial tool for poverty alleviation and financial inclusion, particularly in rural areas. However, gender-related barriers may hinder women's and men's abilities to access and understand the microfinance services effectively.

The research employs a mixed-methods approach, combining qualitative and quantitative data collection techniques. Through surveys, interviews, and focus group discussions, data was gathered from both male and female microfinance clients and non-clients in Dakshina Kannada district.

The findings shed light on significant disparities in accessing microfinance services between genders. The study shows that there is no statistically significant difference between the male and female microfinance beneficiaries with regard to the level of difficulty faced while accessing the micro finance and also there is no statistically significant difference between the male and female beneficiaries with regard to the level of difficulty faced in understanding the micro finance process.

In conclusion, this study is based on pilot study and it employed a very small data sample. The study concludes that there is no gender association in accessing and knowing the process of micro finance. A moderate level association was identified in correlation and regression test. However, with large scale of data this test may give further greater insights in to the subject matter.

Key Words:

Micro Finance, Poverty Alleviation, Financial Inclusion.

Introduction

The rural poor are weakened due to various reasons, such as; most of them are socially backward, illiterate with low motivation and poor economic base. Individually, a poor is not only weak in socioeconomic term but also lacks access to the knowledge and information, which are the most important components of today's development process. However, in a group, they are empowered to overcome many of these weaknesses. The microfinance is only tool to overcome the above drawbacks, and which will help for women empowerment, but the management of finance is very difficult to the women community and in some cases the fund fully miss-utilized and at the same time no authority or regulation is controlling the utilization of fund. Women as micro and small entrepreneurs have increasingly become a key target group for micro-finance programme. Providing access to microfinance is considered a precondition for poverty alleviation, but also for women's empowerment. But despite the proven positive impact entrepreneurs in the informal sector, micro-finance is just one pool among others to address the multiple causes of poverty, unemployment and social exclusion, but micro finance loans are not available to all the women beneficiaries in SHGs. The members are facing

The factor that influences on timely completion of work in micro and small-scale industries and the current manufacturing culture

Sathya Prakash A¹, Dr. Shrinivasa Mayya D², Venkatesh Rao³, Mohammed Gowspeer⁴

¹Research Scholar Department of ME, SIT Mangaluru

²Research Guide and Principal, SIT Mangaluru

^{3,4} Assistant Professor, Department of ME, SIT Mangaluru

Abstract

This paper highlights the factors that influence on timely completion of work in micro and small-scale customized product development industries. In this study, ANOVA regression analysis and Correlation study are used to know the influence of different independent factors on the dependent factor of Timeliness in the completion of work by the employees. According to the study the F-value is 5.561, which indicates that the regression model is significant at the 0.05 level of significance. And detailed study of each 19 independent factors and dependent factors gives evidence of the level of correlation between each independent factor and dependent factor. The correlation coefficient of all 19 independent and dependent variables is not positive, and the seven factors show an insignificant relationship between dependent and independent factors. This insignificant relationship and poor positive correlation are the reason for low F statistics, this indicates that the timely completion of work in micro and small-scale industries are not good or the product development time is comparatively more than the required time.

Key Words: *Agile Manufacturing, Micro and small scale industries, ANOVA*

RTIMES23036

Performance Analysis of Diesel Engine Fueled With Biodiesel Using Machine Learning Approach

Shankar K S¹, Adithya S², S. Akash³, Suraj Itape⁴

¹Professor, ^{2,3,4}UG Scholar, Department of Mechanical Engineering, Srinivas Institute of Technology,
Mangaluru, Karnataka, India.

Abstract

This study focuses on the performance analysis of a diesel engine fueled with biodiesel using a machine learning approach. The analysis used two models: decision tree and linear regression. The data used in the analysis were collected from experiments conducted on a diesel engine using different blends of biodiesel prepared using waste cooking oil. The blends used are B10, B20 and B30. The performance parameters analyzed include brake thermal efficiency, brake specific fuel consumption, and emission parameters. The models were trained using the collected data, and their performance was evaluated based on the coefficient of determination (R-squared) and mean absolute error (MAE).

The study demonstrates the effectiveness of machine learning models in analyzing the performance of diesel engines fueled with biodiesel. Decision tree algorithm is appropriate and better in performing the predictions of engine parameters and engine emissions. The data transformation and optimization techniques will help the prediction model to be more accurate. Decision tree algorithm is having better efficiency while predicting the performance and emission parameters of above 0.9 for all the predictions made, linear regression has a score of about 0.8 and above while predicting 2 parameters and less than 0.7 while predicting the other three parameters.

Keywords: Diesel engine, Biodiesel, Performance analysis, Machine learning, Linear Regression, Decision tree, Training dataset, Testing dataset, Predictive modeling.

RTIMES23056

RFID Based Inventory Monitoring for Small Scale Spice Industry

Anoop R B¹, Dr. Shankar K S²

¹ PG scholar, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India.

² Professor & Head, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India.

Abstract

The spice industry plays a crucial role in global trade and culinary practices, particularly for small-scale enterprises that cater to niche markets. Efficient inventory monitoring is a critical aspect of ensuring smooth operations, cost-effectiveness, and customer satisfaction in such industries. This paper proposes an RFID-based inventory monitoring system, integrated with the Internet of Things (IoT) technology, and implemented using the LAMP (Linux, Apache, MySQL, PHP) stack architecture to address the specific needs of small-scale spice businesses.

In conjunction with RFID, IoT technology enables seamless data transmission and real-time communication between the RFID readers and the central database. This continuous flow of data empowers managers and stakeholders with up-to-date inventory status, enabling better decision-making, reducing stockouts, and optimizing production processes. Python models were created for highly accurate inventory counting across varying depletion rates. Linear regression and k-Nearest Neighbors models calculate spice powder quantities with minimal wastage. Further analysis of inventory accuracy across different RFID frequencies, read ranges, and delays provides insights into optimizing the system design.

Keywords: *LAMP stack architecture, RFID, Internet of Things (IoT), RFID readers, Python.*

RTIMES23038

Automatic Brake Failure Indicator with Automatic braking by electromagnet coil type braking

Dr. Shankar K S¹, Muhammad Shakeel², Navaneeth Nischal³, Pramod⁴, Siddarth U⁵

¹Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143,
Karnataka, India.

^{2,3,4,5} UG scholar, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-
574143, Karnataka, India

Abstract

Machines are now frequently controlled by control systems. Economical and efficient control of machinery is required to meet the demands of an expanding population. A control system based on an automatic brake failure signal and automatic braking using an electromagnet coil type of braking is what is intended to be designed and developed. This project consists of an IR sensor circuit, a control unit, a wheel and brake arrangement, and a braking mechanism that uses electromagnet coils. The electromagnetic braking system's control signal and sensor are utilized to turn it on and off respectively. It is suggested to use an automatic brake failure warning in conjunction with automatic electromagnet coil type braking. The system is made up of an electromagnet coil that produces braking force by interacting with the brake disc or drum and a sensor that senses when the brake pedal is pushed and transmits a signal to activate the brake failure indicator. As the car's speed slows, the electromagnetic braking force builds up gradually until the vehicle comes to a complete stop. By automatically applying the brakes to bring the car to a stop and alerting the driver of the brake failure, this technology adds an extra layer of safety in the case of a brake failure.

Key Words: *Electromagnetic braking system, IR sensor circuit.*

RTIMES23027

Fabrication of portable fresh water generator for Fishing vessels

Lokesh V¹, Jishnu S Panicker², Sheethal G S³, Godwin Shaju⁴, I M Albert Vishal⁵

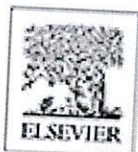
¹Associate professor, Department of Marine Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India.

^{2,3,4,5} UG scholar, Department of Marine Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India

Abstract

This project work describes a fabrication of portable fresh water generator for fishing vessels. Drinking, cooking, washing, and even operating other significant machinery that utilizes fresh water as a cooling medium all use the fresh water that is generated by a fresh water generator. On board, fresh water is often created by evaporation. On a ship, sea water and heat source are two resources that are readily available to make fresh water. As a result, fresh water is created by heating sea water and using any of the heat sources. The cycle then continues as the evaporating sea water is once more cooled by the sea water. In fishing boats, portable fresh water generator, which they could utilize effectively for domestic purposes. Fresh water is now carried on fishing boats in water tanks, which takes up room and restricts how they can be used.

Keywords: *Portable, Fresh Water Generator, Fishing Vessel, Evaporation, Vacuum, Desalination.*



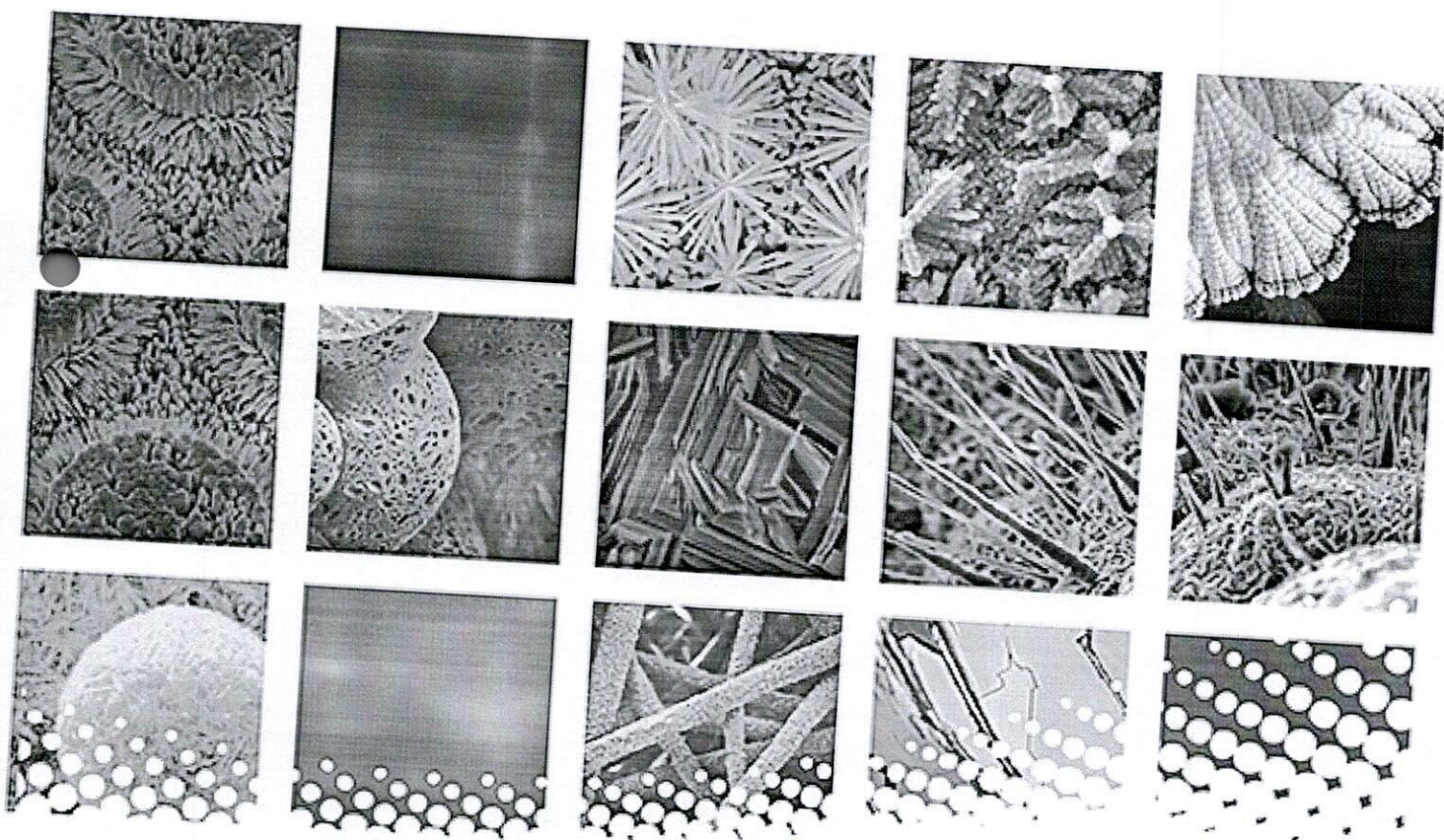
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Impact of fibre orientation on mechanical properties of GFRP composites

H.S. Sharath Chandra ^a , K.S. Lokesh Mr Lokesh ^b , G. Ravindra Babu Mr Ravindra ^c ,
D. Shrinivasa Mayya Dr Shrinivasa ^b , J.R. Naveen Kumar Dr Naveen ^d

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Abstract

Knowing the characteristics of a composite material under a given set of circumstances is



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Analysis of design parameters of fuel injector used in liquid propellant rocket engine

Raghavendra Paj^a, Lokesh KS^b , Shrinivasa Mayya D^b, Vidyashree HG^b, Yallappa RK^b, Jayashree J^b, Neha KU^b, Sagar KK^b

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<https://doi.org/10.1016/j.matpr.2023.05.166>

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Abstract

RTIMES23055

Automated Truck Loading and Unloading System in Harbour

Akash L¹, Dr. Lokesh V²

¹PG scholar, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India.

²Associate professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India.

Abstract

This project report centers on the significance of automating truck loading and unloading processes within industries, particularly in harbors. It proposes an innovative approach to enhance these operations using electromagnets and sensors. In the context of harbor operations, automation offers substantial benefits. The core concept revolves around employing a screw motor mechanism in conjunction with harbor-installed electromagnets for seamless container transfer onto and off trucks. Arduino UNO boards serve as the programming foundation, utilizing Embedded C to orchestrate operations efficiently. These sensors establish a vital link between the harbor and truck systems, ensuring seamless coordination. The primary objectives are to save time, bolster safety, enhance productivity, and reduce time consumption in real-time operations, ultimately prioritizing the safety and well-being of harbor laborers.

Keywords: *SMPS, Automated truck loading and unloading, Motor Screw Mechanism, Embedded C Programming.*

RTIMES23045

Design and Fabrication of Stair Climbing Mechanism To Lift Load over Stairs

Prof.Sudheendra H N¹, Akshay Krishnan²,Hasim B K³, Srujan Shetty B⁴, Jayananda⁵

¹Assistant professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India.

^{2,3,4,5} UG scholar, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India

Abstract

Design and Fabrication of Stair climbing mechanism to lift load over stairs deals with the design and manufacture of mechanism for stair climbing to lift load over staircase flight. Construction of a base and pistons is required for the project in order to move loads using compressed air. Wheels facilitate moving a big object easily on flat, straight ground, but stairs provide a challenge, especially in India. This project provides a substitute for carrying loads in structures without lifts. It is a mechanical system that enables a single person to carry a load up a flight of steps.

The concept can also be used to transport a wheelchair- bound employee up a flight of stairs. Since this device is entirely mechanical in nature, it can also be used in places without access to electricity. Establish the mechanism's maximum weight capacity, the types of cargo it will transport, the height and width of any stairs it must climb, and any unique operational or environmental restrictions. Create a conceptual design in accordance with the specifications. Think about several strategies like wheeled systems, tracked systems, or legged systems. Choose the option that best satisfies your unique demands because each has advantages and limitations. The project focused on both an average family's economic needs and the efficiency requirements of any industry.

Keywords: Stair climbing mechanism, wheeled systems.

Survey Tactic to Learning the Impact of Management Factor in Employing TPM in Selected SMEs

M.J. Raghavendra, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka. E-mail: raghavendra.ram@sitmng.ac.in

K.S. Sandesh, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

N. Varun, Department of Automobile Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

S. Shashank, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

Abstract--- In the present technologically advanced business environment, industries need to adopt modern maintenance practices such as Total Productive Maintenance (TPM) to support their production facilities and systems. TPM is a Japanese philosophy which strives to improve the productivity of machines by reducing breakdowns, defects, accidents and wastes. It collaborates maintenance and production functions by the total participation of all the employees in an organization. This research work is carried out in Small and Medium Enterprises (SMEs) with the help of a questionnaire designed to investigate the usage and awareness level of TPM. The pre-set questionnaire is distributed to 150 different SMEs in India and 120 responses are received. These 120 responses are considered for the analysis. The respondents are randomly selected and they include chief executives, engineers, managers and supervisors. The responses obtained are rated on a five-point Likert scale. This questionnaire-based survey research also helps to study the influence of management factor in implementing TPM in the selected SMEs.

Keywords--- Maintenance, TPM, Productivity, SMEs, Likert Scale.

RTIMES23050

Manufacturing of EDM electrode by Direct Metal Laser Sintering method

Shashank S¹, Dr. Thomas Pinto², Dr.C.GRamachandra³, Dr.RaghavendraM.J.⁴

^{1,4}Assistant Professor Department of Mechanical Engineering, Srinivas Institute of Technology, Mangalore

²Dean, SUCET, Mangalore

³Associate Professor Department of Mechanical Engineering Presidency University, Bangalore

Abstract

A non-conventional machining technique called electrical discharge machining (EDM) is frequently used to create intricate shapes in hard materials that are not easily machined using conventional machining techniques. It takes a lot of effort and time to produce an electrical discharge machining electrode with intricate geometry.

An alternate method for producing electrical discharge machining electrode more quickly is selective laser sintering (SLS). This work entails using a direct metal sintering machine to manufacture an electrode for electrical discharge machining that is composed of stainless steel 316L (SS316L). By using this method of laser sintering SS316L, it is possible to achieve greater tolerance as well as improved electrical discharge machining electrode density.

Keywords: *Selective laser sintering, Direct metal laser sintering, EDM Electrode, SS316L*

RTIMES23026

Design and Development of Agriculture Seeding Drone

Vinayak Kammar¹, Raghavendra M J^{2*}, Gajanan Ambiger¹, Mohit Kulkarni¹, Sahana H S¹

¹ UG scholar, Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India.

² Associate professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India.

Abstract

Condition monitoring is a critical process used to monitor the health and performance of machinery, particularly motors. The aim is to identify potential issues before they occur, allowing proactive maintenance and repairs to be carried out. This paper highlights the use of Internet of Things (IoT) technologies to conduct condition monitoring of motors remotely. The IoT technologies facilitate the remote monitoring of motor performance and the collection of data on key performance indicators (KPIs), including vibration, temperature, and power usage. This data is analyzed to identify trends and potential issues, enabling maintenance teams to take proactive action to prevent downtime and prolong the motor's lifespan.

For accurate data collection, the sensors must be carefully calibrated. Once in place, data can be collected and analyzed over time to identify trends and potential issues. The analysis can be done manually by trained technicians or through the use of software applications. In conclusion, the use of condition monitoring with IoT technologies helps to improve motor performance and reliability, allowing for proactive maintenance and repairs, leading to cost savings and increased productivity.

Keywords: Condition monitoring, I.O.T technologies, Motor performance, Key performance indicators (KPIs), Proactive maintenance and Cost savings.

RTIMES23042

Pick and place robot controlled by IOT with voice over command

Raghavendra M J^{1*}, Vineeth Valsarajan Nambiar²

¹*Associate professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India.*

²*PG scholar, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-
574143, Karnataka, India*

Abstract

By designing a versatile Mobile Application Robot with a stable configuration, you are enabling a wide range of applications such as welding, pick and place tasks, and more. This flexibility is beneficial as it allows users to adapt the robot for various purposes, making it a valuable tool for educational and practical use. Equipping the robot with wheels and a DC motor provides mobility, allowing the 3-axis complete structure to move. This feature enhances the robot's functionality, enabling it to navigate different environments and perform tasks that require movement. The microcontroller plays a crucial role in communicating with the actuators (motors) to execute the desired actions. It receives instructions from the mobile application and translates them into commands for the actuators. This communication pathway allows users to control the movements and actions of the robotic arm through the mobile application, providing a user-friendly and intuitive interface.

Keywords: *Mobile Application Robot, pick and place, I.O.T technologies, Motor performance.*

Forest fire detection and extinguisher drone

Prof. Lokesh K S¹, Sachin², Rakesh A P³, Mohamed Aftab⁴, Manoja Kumara K M⁵

¹ Assistant professor, Department of Aeronautical engineering, Srinivas institute of technology, Valachil, Mangaluru-574143 Karnataka India.

^{2,3,4,5} Students, Department of Aeronautical engineering, Srinivas institute of technology, Valachil, Mangaluru-574143 Karnataka India.

Abstract

UAV – Unmanned Aerial Vehicle, commonly called ‘DRONES’ are pilotless aircraft. Forest Fire Accidents can cause serious injury and damages to the wildlife and environment. General Fire accidents occur often unexpectedly and sudden. Forest Survey of India (FSI) reported revealed that Uttarakhand 12,985 wildfire incidents between November 2021 and June 2022. According to FSI data, Uttarakhand is among the 10 states with the most such cases. When the Fire service responders arrive on a Fire scene, it is very difficult for them to predict the situation subjected to Fire, so Drone can be a solution for the Fire fighters to take decisions about where to concentrate resources and how to approach and enter the scene. To save as many lives as possible, it is important to leave dangerous tasks to machines. One such device is a drone; it provides great maneuverability and doesn't risk any personnel.

Drones can also gather information at greater speed, reliability and are also able to drop items. Thus, Our drone initially detects the fire by using flame sensor and next fire extinguish work is done. The more number of drones can be used for moisture the boundary of region of forest fire by drone cloning. All drone works under a queen drone which will be more effective in extinguishing the forest fire. Drone enters the forest area in which it works as a surveillance, as the fire in any region of forest is detected it captures the location and sends the exact location to the controller. Then the precaution measure for that is taken. The inflammables are carried near to the fire region, then our drone will help in carrying the pipe through which the moisture content is released through pump.

Keywords: Unmanned aerial vehicle (UAV), Machine Learning, Fire fighting, Object Detection, Flammable Gases, Temperature sensor, Flight Controller, Internet of Things.

RTIMES23038

Automatic Brake Failure Indicator with Automatic braking by electromagnet coil type braking

Dr. Shankar K S¹, Muhammad Shakeel², Navaneeth Nischal³, Pramod⁴, Siddarth U⁵

¹Professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143,
Karnataka, India.

^{2,3,4,5} UG scholar, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-
574143, Karnataka, India

Abstract

Machines are now frequently controlled by control systems. Economical and efficient control of machinery is required to meet the demands of an expanding population. A control system based on an automatic brake failure signal and automatic braking using an electromagnet coil type of braking is what is intended to be designed and developed. This project consists of an IR sensor circuit, a control unit, a wheel and brake arrangement, and a braking mechanism that uses electromagnet coils. The electromagnetic braking system's control signal and sensor are utilized to turn it on and off respectively. It is suggested to use an automatic brake failure warning in conjunction with automatic electromagnet coil type braking. The system is made up of an electromagnet coil that produces braking force by interacting with the brake disc or drum and a sensor that senses when the brake pedal is pushed and transmits a signal to activate the brake failure indicator. As the car's speed slows, the electromagnetic braking force builds up gradually until the vehicle comes to a complete stop. By automatically applying the brakes to bring the car to a stop and alerting the driver of the brake failure, this technology adds an extra layer of safety in the case of a brake failure.

Key Words: *Electromagnetic braking system, IR sensor circuit.*

Survey Tactic to Learning the Impact of Management Factor in Employing TPM in Selected SMEs

M.J. Raghavendra, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka. E-mail: raghavendra.ram@sitmng.ac.in

K.S. Sandesh, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

N. Varun, Department of Automobile Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

S. Shashank, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

Abstract--- In the present technologically advanced business environment, industries need to adopt modern maintenance practices such as Total Productive Maintenance (TPM) to support their production facilities and systems. TPM is a Japanese philosophy which strives to improve the productivity of machines by reducing breakdowns, defects, accidents and wastes. It collaborates maintenance and production functions by the total participation of all the employees in an organization. This research work is carried out in Small and Medium Enterprises (SMEs) with the help of a questionnaire designed to investigate the usage and awareness level of TPM. The pre-set questionnaire is distributed to 150 different SMEs in India and 120 responses are received. These 120 responses are considered for the analysis. The respondents are randomly selected and they include chief executives, engineers, managers and supervisors. The responses obtained are rated on a five-point Likert scale. This questionnaire-based survey research also helps to study the influence of management factor in implementing TPM in the selected SMEs.

Keywords--- Maintenance, TPM, Productivity, SMEs, Likert Scale.

RTIMES23031

Developing an Automated Leak Detection System for Fluids in Ships

Sathiya Prakash A¹, N Shankar², Akash Kotharkar³, Harshavardhan Dalavai⁴, Nandan S N⁵

¹*Department of Mechanical Engineering, Srinivas Institute of technology, Affiliated to Visvesvaraya Technological University, Belagavi- 590018, Karnataka, India.*

^{2,3,4,5}*Department of Marine Engineering, Srinivas Institute of technology, Affiliated to Visvesvaraya Technological University, Belagavi- 590018, Karnataka, India.*

Abstract

Leakage of fuel/oil is one the main reasons for engine room fire has they fall on the hot surface causing fire to ignite which later becomes large fire. An automatic leak detection system for fluids in ship is a system that is designed to detect and alert the crew of any leaks of fluid on board the ship. These systems can be used to detect leaks in a variety of fluids, including fuel, oil, water, and other chemicals. The key advantages of the system are its ability to continuously monitor the ship for leaks, even when the crew is not actively looking for them. This system helps to identify leaks as they occur, alerting the crew and allowing for timely repair to be made. This can help to prevent small leaks from turning into larger ones, which can cause significant damage to the ship. The system typically consists of flow sensors installed at strategic locations throughout the ship, which can detect the presence of fluid leaks and send an alert to the control room. An automatic leak system is a valuable tool for ensuring the safety and integrity of a ship's fluid system. It can help to prevent damage to the ship and the environment and can provide peace of mind for the crew and other stakeholder

Keywords: *Leakage, Detection, Fluids, Flow sensors, Ship safety.*

RTIMES23037

The factor that influences on timely completion of work in micro and small-scale industries and the current manufacturing culture

Sathya Prakash A¹, Dr. Shrinivasa Mayya D², Venkatesh Rao³, Mohammed Gowspeer⁴

¹Research Scholar Department of ME, SIT Mangaluru

²Research Guide and Principal, SIT Mangaluru

^{3,4} Assistant Professor, Department of ME, SIT Mangaluru

Abstract

This paper highlights the factors that influence on timely completion of work in micro and small-scale customized product development industries. In this study, ANOVA regression analysis and Correlation study are used to know the influence of different independent factors on the dependent factor of Timeliness in the completion of work by the employees. According to the study the F-value is 5.561, which indicates that the regression model is significant at the 0.05 level of significance. And detailed study of each 19 independent factors and dependent factors gives evidence of the level of correlation between each independent factor and dependent factor. The correlation coefficient of all 19 independent and dependent variables is not positive, and the seven factors show an insignificant relationship between dependent and independent factors. This insignificant relationship and poor positive correlation are the reason for low F statistics, this indicates that the timely completion of work in micro and small-scale industries are not good or the product development time is comparatively more than the required time.

Key Words: *Agile Manufacturing, Micro and small scale industries, ANOVA*

RTIMES23046

Design and Fabrication of a parabolic trough solar collector to generate steam

Gokul P¹, Deekshith², Akhilesh gatty³, Prof. Jayaram Thumbe⁴

Student^{1,2,3}, Associate Professor⁴ Department of Mechanical Engineering, Srinivas Institute of Technology, Mangalore-547143, Karnataka, India

Abstract

A solar collector is a device that converts solar radiation from the Sun into heat, which is subsequently transferred to a working fluid. Over time, using solar collectors lowers energy costs because they don't require the same amount of electricity or fossil fuels as traditional water heating. A significant number of these collectors can be used in solar thermal power plants to generate electricity in addition to being used in homes. There are a number of different types of solar collector designs that use the energy of the sun to heat working fluid. Each design whether a basic blackened flat panel collector or a more advanced evacuated tube collector all have their own advantages and disadvantages.

Better alternative methods to more efficiently homogeneously heat higher temperatures are offered by parabolic reflectors. The solar energy collected by the parabolic trough reflector is intended to capture direct solar radiation from the sun over a large surface area and focus or "concentrate it" on a small focal point area, thereby increasing the amount of solar energy received by a factor greater than two. Collecting fields by connecting parabolic troughs necessitates large tracts of land for installation. Parabolic troughs also have a smaller area of absorption and 12% efficiency with a narrower field of view.

Engineered colloidal suspensions of nanometer-sized particles in a base fluid are known as nanofluids. The common precursors of nanoparticles are metals, oxides, carbides, or carbon nanotubes. Common base fluids are oil, ethylene glycol, and water. Because of their high turbulence properties and large area to volume ratio, nanofluids exhibit enhanced thermal conductivity.

Owing to its unique characteristics, nano fluid finds use in a wide range of heat transfer applications, such as microelectronics, fuel cells, pharmaceutical processes, hybrid engines, machining, engine cooling/vehicle thermal management, refrigerators, chillers, heat exchangers in boilers, and gas temperature reduction in automobiles. Understanding nanofluids' physicochemical behavior is found to be crucial in determining whether or not they are suitable for convective heat transfer applications..

Keywords: *Nanofluids, Convective heat transfer, collector.*

RTIMES23057

Traffic Signal Violation Detection System

Jacob Antony¹, Ebin Antony², Jayaram Thumbe¹

¹ Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143,
Karnataka, India.

² Department of Information Technology, Kannur University, Kannur, India.

Abstract

The escalating number of vehicles on Indian roads has escalated the complexity of traffic management, posing significant challenges. Effectively managing traffic necessitates the proactive detection of rule violations to ensure road safety. Conventional methods coupled with existing technologies for identifying traffic violations have proven inadequate, contributing to the escalating difficulty in traffic management. In response to this challenge, this study proposes an innovative system leveraging advanced image processing technologies to detect prominent violations, notably over speeding, helmet non-compliance, and number plate recognition. By harnessing the power of image processing, this system aims to streamline the task of traffic management, providing automated and accurate violation detection. The comprehensive approach not only offers potential solutions to improve road safety but also addresses the pressing need for efficient and reliable traffic control systems.

Keywords: *Traffic Signal, Image Processing, Violation Detection, Object Detection*

RTIMES23037

The factor that influences on timely completion of work in micro and small-scale industries and the current manufacturing culture

Sathya Prakash A¹, Dr. Shrinivasa Mayya D², Venkatesh Rao³, Mohammed Gowspeer⁴

¹Research Scholar Department of ME, SIT Mangaluru

²Research Guide and Principal, SIT Mangaluru

^{3,4}Assistant Professor, Department of ME, SIT Mangaluru

Abstract

This paper highlights the factors that influence on timely completion of work in micro and small-scale customized product development industries. In this study, ANOVA regression analysis and Correlation study are used to know the influence of different independent factors on the dependent factor of Timeliness in the completion of work by the employees. According to the study the F-value is 5.561, which indicates that the regression model is significant at the 0.05 level of significance. And detailed study of each 19 independent factors and dependent factors gives evidence of the level of correlation between each independent factor and dependent factor. The correlation coefficient of all 19 independent and dependent variables is not positive, and the seven factors show an insignificant relationship between dependent and independent factors. This insignificant relationship and poor positive correlation are the reason for low F statistics, this indicates that the timely completion of work in micro and small-scale industries are not good or the product development time is comparatively more than the required time.

Key Words: *Agile Manufacturing, Micro and small scale industries, ANOVA*

RTIMES23034

DESIGN AND FABRICATION OF CONTROLLER DRIVEN GYROSTABILIZER FOR SMALLER BOAT

Mohamed gowspeer¹, Abhishek Acharya R², Brijesh U³, Manvithraj N suvarna⁴, Shashank⁵

¹Associate professor, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India.

^{2,3,4,5} UG scholar, Department of Mechanical Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-
574143, Karnataka, India

Abstract

Small boats often face instability due to wave-induced motion, posing safety risks and discomfort. This project addresses the issue by developing a gyrostabilizer system with an accelerometer, Arduino, servo motor, and brushless motor. The accelerometer measures angular velocity, allowing the Arduino to calculate necessary adjustments. The servo and brushless motors work together to counteract boat motion and maintain stability. This project aims to develop a gyrostabilizer system utilizing an accelerometer, Arduino controller, and a servo motor coupled with the rotor of a brushless motor.

The system's objective is to maintain stability and minimize rotational movements. Experimental results demonstrate the effectiveness of the controller-driven gyrostabilizer. The implemented controller-driven gyrostabilizer, comprising an accelerometer, Arduino, servo motor, and brushless motor, successfully achieves stability by minimizing rotational movements. This project showcases the potential for utilizing these components to develop effective stabilization systems for various applications.

Keywords: Boat, Gyrostabilizer, accelerometer, Arduino, Servo motor, Brushless motor, Stability.

RTIMES23037

The factor that influences on timely completion of work in micro and small-scale industries and the current manufacturing culture

Sathya Prakash A¹, Dr. Shrinivasa Mayya D², Venkatesh Rao³, Mohammed Gowspeer⁴

¹Research Scholar Department of ME, SIT Mangaluru

²Research Guide and Principal, SIT Mangaluru

^{3,4} Assistant Professor, Department of ME, SIT Mangaluru

Abstract

This paper highlights the factors that influence on timely completion of work in micro and small- scale customized product development industries. In this study, ANOVA regression analysis and Correlation study are used to know the influence of different independent factors on the dependent factor of Timeliness in the completion of work by the employees. According to the study the F- value is 5.561, which indicates that the regression model is significant at the 0.05 level of significance. And detailed study of each 19 independent factors and dependent factors gives evidence of the level of correlation between each independent factor and dependent factor. The correlation coefficient of all 19 independent and dependent variables is not positive, and the seven factors show an insignificant relationship between dependent and independent factors. This insignificant relationship and poor positive correlation are the reason for low F statistics, this indicates that the timely completion of work in micro and small-scale industries are not good or the product development time is comparatively more than the required time.

Key Words: *Agile Manufacturing, Micro and small scale industries, ANOVA*

RTIMES23044

Design and Fabrication of Propellant for Hybrid Rocket Engine using 3D Printing.

Shamsulsadiq¹, Vinaykumar H S², Neha K U³, Sagar KK⁴, Mr. Srinidhi Kukkila⁵

*Student^{1,2,3,4}, Assistant Professor⁵ Department of Aeronautical Engineering, Srinivas Institute of
Technology, Mangalore-547143, Karnataka, India*

Abstract

The production of propellant for hybrid rocket engines was done in this project. A hybrid rocket is simply one that uses fuel in two different forms, such as liquid, gas, or solid. About 1930, the idea of a hybrid rocket was first proposed. In order to determine the effective burning rate, this work tests a variety of elements in small-scale fire tests. The components consist of photosensitive resin, polylactic acid (PLA), and Acrylonitrile butadiene styrene (ABS). Acrylonitrile butadiene styrene (ABS) and polylactic acid (PLA) were compared, and photosensitive resin was used to measure the materials' elasticity. Different compositions were tested and their effective combustion rates were compared. In comparison to photosensitive resin, Acrylonitrile butadiene styrene (ABS) and polylactic acid (PLA) have a lower regression rate and longer combustion duration. A form of polymer called photosensitive resin hardens when exposed to ultraviolet light; it is mostly utilized in 3D printing and other applications. The rocket business usually uses photosensitive resin. Therefore, the focus of this report is on photosensitive resin, including its design, manufacturing process, and comparison with current hybrid propellant.

Keywords: *Acrylonitrile butadiene styrene, propellant, polylactic acid*

RTIMES23025

Preparation and Properties Evaluation of Bio-lubricant Derived from Biomass

Sandesh K S¹ Abdul Salam Attar², R Ramith³, Libin B⁴, Jomon Johnson⁵

¹Assistant Professor, Dept. of Mechanical Engineering

^{2,3,4,5}Student, Dept. of Marine Engineering

Srinivas Institute of Technology, Mangalore-574143, Karnataka, India

Abstract

The Research is conducted specifically on the production and characterization of Bio-lubricant from palm oil. In all analyzed scenarios, transesterification of biological lubricant was carried out under ideal chemical conditions, resulting in high yields. Physical properties including but not limited to fatty acid methyl ester profile, viscosity, viscosity index and density are investigated. According to the properties described in this study, biodiesel products are compliant. Viscosity values for biological lubricants are similar to those found in the literature, but with longer induction points. The fatty acid composition of raw materials, which is important for Biolubricant performance, appears to have a significant impact on both qualities.

Keywords: *Agriculture, Seeding, Centrifugal, Sowing, Endurance, Range*

RTIMES23039

Design and Fabrication of Smart Polar coordinated Fire Extinguisher

Gautham¹, Akshay krishna N², Mohammed NabeelM³, Prof. UN Baipadithaya⁴

Student^{1,2,3}, Professor⁴

Department of Mechanical Engineering, Srinivas Institute of Technology, Mangalore, India

Abstract

Large factories, warehouses, and industrial production facilities always run the risk of fires breaking out. Lack of appropriate fire fighting measures could result in disastrous consequences along with financial losses and might even lead to massive loss of human life. Usual fire protection systems installed in buildings have the following disadvantage. They spray small amounts of water from each sprinkler which may not be enough to put out the fire. The sprinklers are not targeted and spray an entire floor or building ruining computers, furniture, and paperwork. While this sprayer gun can spray water in desired quantity only at fire outbreak point to stop fire without ruining complete office furniture and electronics. This demo version is made to be remote-controlled from a few meters but the future version will operate remotely from the fire dept.

Fire monitors and sprayers are amiable and controllable high-capacity water jets used to deal with large fires. Unlike Fire extinguishers, Fire Monitors are permanently installed and cannot be moved. While traditional fires monitor systems need a human operator to change the direction of the water jet and aim it appropriately, this fire monitor has been equipped with RF control. There by allowing the user to operate it from a safe distance. The system makes use of a Motor coupled with a powerful sprayer motor with a piping system and onboard wireless fire sensing sensor run this system. Another motor issued to control the nozzle's direction movement. The user may use a wireless remote to transmit movement commands. The receiver circuitry mounted on the system receives users' commands and operates the motors to achieve the desired motion. Also, they receive operates the pump motor to start and stop the spray. The sprayer nozzle can also be adjusted to adjust the water spray outlet. The sprayer mechanism is designed to run in two directions, allowing for positional adjustments in x and y directions and 360 degrees of water spray coverage.

Keywords: *sprinkler, Fire extinguishers, RF control.*

RTIMES23050

Manufacturing of EDM electrode by Direct Metal Laser Sintering method

Shashank S¹, Dr. Thomas Pinto², Dr.C.GRamachandra³, Dr.RaghavendraM.J.⁴

^{1,4}Assistant Professor Department of Mechanical Engineering, Srinivas Institute of Technology, Mangalore

²Dean, SUCET, Mangalore

³Associate Professor Department of Mechanical Engineering Presidency University, Bangalore

Abstract

A non-conventional machining technique called electrical discharge machining (EDM) is frequently used to create intricate shapes in hard materials that are not easily machined using conventional machining techniques. It takes a lot of effort and time to produce an electrical discharge machining electrode with intricate geometry.

An alternate method for producing electrical discharge machining electrode more quickly is selective laser sintering (SLS). This work entails using a direct metal sintering machine to manufacture an electrode for electrical discharge machining that is composed of stainless steel 316L (SS316L). By using this method of laser sintering SS316L, it is possible to achieve greater tolerance as well as improved electrical discharge machining electrode density.

Keywords: *Selective laser sintering, Direct metal laser sintering, EDM Electrode, SS316L*

Survey Tactic to Learning the Impact of Management Factor in Employing TPM in Selected SMEs

M.J. Raghavendra, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka. E-mail: raghavendra.ram@sitmng.ac.in

K.S. Sandesh, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

N. Varun, Department of Automobile Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

S. Shashank, Department of Mechanical Engineering, Srinivas Institute of Technology, Mangaluru, Karnataka.

Abstract--- In the present technologically advanced business environment, industries need to adopt modern maintenance practices such as Total Productive Maintenance (TPM) to support their production facilities and systems. TPM is a Japanese philosophy which strives to improve the productivity of machines by reducing breakdowns, defects, accidents and wastes. It collaborates maintenance and production functions by the total participation of all the employees in an organization. This research work is carried out in Small and Medium Enterprises (SMEs) with the help of a questionnaire designed to investigate the usage and awareness level of TPM. The pre-set questionnaire is distributed to 150 different SMEs in India and 120 responses are received. These 120 responses are considered for the analysis. The respondents are randomly selected and they include chief executives, engineers, managers and supervisors. The responses obtained are rated on a five-point Likert scale. This questionnaire-based survey research also helps to study the influence of management factor in implementing TPM in the selected SMEs.

Keywords--- Maintenance, TPM, Productivity, SMEs, Likert Scale.

RTIMES23021

A comparative study on mechanical properties oftitanium dioxide and graphene nanoparticles withnatural composite fibers|

Nithin Joshuva¹, Akshita², M.C. Sai Prasad³, Maruti Gurikar⁴, Sahana C J⁵

¹Assistant professor, Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru- 574143, Karnataka, India.

^{2,3,4,5}UG scholar, Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru- 574143, Karnataka, India.

Abstract

This project work describes a comparative study on nano particle titanium dioxide and grapheme using natural composite fiber. There will be two composite material that will be fabricated. One is made using jute and hemp fiber and titanium dioxide (will be added as the filler material). This will be the first composite material and the second composite material will be made of jute and hemp fiber and grapheme nano particles (will be used as the filler material). The composition ratio 60:40. The two composite materials prepared will be made to undergo certain tests which describe the mechanical properties of both the composite materials. Some of the tests that these composite materials undergo are impact strength, hardness, bending and tensile strength (as per ASTM standards). After determining the test results the mechanical properties are found. A comparative study is done according to the results and the best composite fiber with the properties will be shown in the results obtained.

Key words: *Natural composite fiber, jute and hemp composite fiber, nano composite materials titanium dioxide.*

RTIMES23024

Flow Analysis for Dehydration Process for Tray Drying System for Seeds

Prof. Vivek Vijay Kumar¹, Sajan Thomas², Oswin Vinith Dsouza³, Akshata desai⁴,
Thingalaya mitesh Dinesh⁵.

¹Assistant Professor Department of Marine Engineering, Srinivas Institute of technology, Affiliated to
Visvesvaraya Technological University, Belagavi- 590018, Karnataka, India.

^{2,3,4,5} Students Department of Marine Engineering, Srinivas Institute of technology, Affiliated to
Visvesvaraya Technological University, Belagavi- 590018, Karnataka, India.

Abstract

The project involves the simulation of air flow in a mechanical dryer using ANSYS software. The objective of this project is to improve the performance and efficiency of the dryer by optimizing the air flow within the drying chamber. ANSYS software will be used to model and simulate the air flow within the drying chamber, taking into account factors such as temperature, humidity, velocity, and pressure. The simulation will involve the creation of a 3D model of the dryer and its components, heating elements, and air ducts. The simulation will also consider the material being dried. By simulating the air flow within the drying chamber, it will be possible to optimize the design of the dryer to achieve maximum efficiency and performance. The project will involve several steps, including creating the 3D model of the dryer and its components, setting up the simulation parameters, running the simulation, and analyzing the results. The results of the simulation will be used to optimize the design of the dryer and improve its efficiency and performance.

Keywords: *Drying process, tray dryer, numerical simulation, efficiency.*

RTIMES23022

Calculation and analysis of carbon intensity indicator for merchant vessels

Vivek Vijay kumar¹, Sushanth K A², Sharanappa³, subaganesh⁴, M N Rahul Roy⁵

¹assistant professor, Department Of Marine Engineering, Srinivas Institute Of Technology, Valachil, Mangaluru-574143, Karnataka, India

^{2,3,4,5}UGscholar, Department Of Marine Engineering, Srinivas Institute Of Technology, Valachil, Mangaluru-574143, Karnataka, India

Abstract

This project aims to develop a method to calculate the carbon intensity of ships, which is a measure of greenhouse gas emissions per unit of cargo carried. By using data on fuel consumption and distance traveled, the project will create an easy-to-understand rating that shipping companies, regulators, and consumers can use to compare the environmental impact of different ships and routes. Other factors, such as cargo type, vessel age, and size, will also be considered. The resulting carbon intensity indicator will help shipping companies reduce their carbon footprint, allow regulators to make informed decisions, and enable consumers to choose environmentally friendly options. The ultimate goal is to provide a practical and transparent method to mitigate the impacts of climate change by reducing green house gas emissions.

Keywords: *Carbon Intensity Indicator, Emissions, Performance, Consumption, Carbon Emission Factor.*

RTIMES23028

DESIGN AND FABRICATION OF CANNING EQUIPMENT FORTUNA FISH

Prof.Tony K Sebastian¹ , Shafin S² , Sarath S S³ , MuhammedShakir S⁴ , Imthiyaz K V⁵

¹Assistant professor, Department of Marine Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India.

^{2,3,4,5} UG scholars, Department of Marine Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India

Abstract

The triple canning equipment revolutionizes canned tuna production with increased efficiency, productivity, and cost savings. It utilizes three canning lines to produce high-quality canned tuna at an unprecedented rate. This advanced equipment seals cans tightly, preserving freshness and flavor. It caters to diverse needs, sealing cans of varying sizes, reducing production time, and adapting quickly to changing market demands. Embracing this technology enables businesses to excel in the food packaging industry. With the capability of sealing cans of varying sizes, it provides a versatile solution for businesses of all sizes. Whether it is small, medium, or large cans, our equipment can seal three cans at a time, which significantly reduces the production time, thereby increasing the overall productivity. The equipment is also equipped with an innovative feature that allows for easy changing of the sealing seamer, making it possible to seal cans with different dimensions quickly. This feature makes the equipment extremely flexible, allowing businesses to adapt to changing market demands and stay ahead of the competition. carried on fishing boats in water tanks, which takes up room and restricts how they can be used.

Keywords: *Triple canning equipment, unprecedented rate.*

RTIMES23033

Design and fabrication of potato planting machine

Chandra Jogi¹, Sumanth S², Lohith Ishwar Moger³, F Abraar ur Rehman⁴, K G
Shreesha Udupa⁵

¹Associate professor, Department of Marine Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India.

^{2,3,4,5} UG scholar, Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-
574143, Karnataka, India.

Abstract

Potato cultivation is a labor-intensive and time-consuming process, which can be a major challenge for farmers. To address this issue, we propose the design and development of a potato planting machine that can automate the process of potato planting. This machine is designed to be affordable, efficient, and easy to operate, making it an ideal solution for small and medium-sized farms. The proposed potato planting machine is based on a precision agriculture approach which involves the use of advanced technology to optimize crop production. The machine consists of a tiller that uses the power from an internal combustion engine to plant potatoes at a predetermined depth and spacing. In addition to improving the efficiency and productivity of potato cultivation, this machine has several advantages over traditional Planting methods. It reduces labor costs, improves planting accuracy, and reduces the risk of crop damage. It also enables Farmers to plant potatoes in a timely and consistent manner, which can result in higher crop yields.

Key words – Internal combustion engine, Tiller, Potato planting

RTIMES23032

DESIGN AND FABRICATION OF IOT BASED SMART MULTIPURPOSE DEHYDRATOR

Sunil Prakash Rodrigues¹, Rahul², Rasik³, Sujan⁴, Thejas H C⁵

¹Associate professor, Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India.

^{2,3,4,5} UG scholar, Department of Marine Engineering, Srinivas Institute of Technology, Valachil, Mangaluru-574143, Karnataka, India

Abstract

The IoT-based smart dehydrator is a device that uses Internet of Things (IoT) technology to automatically dehydrate food items. This device utilizes sensors, connectivity and machine learning algorithms to ensure that food is dehydrated at optimal temperature and humidity levels, resulting in longer shelf life and better quality. The objective of this work is to fabricate a prototype of an existing dehydrator and incorporate IoT technology into the system. A lifting tray mechanism is introduced to maximize space utilization in the dehydrator, while a heater, exhaust fan, and thermometer are installed to maintain the temperature inside the unit, ensuring efficient drying of agricultural products and with the help of Arduino programming the process of maintaining temperature can be automated. This prototype has shown better drying outcomes than the current models through comparison between manual drying and smart dehydrator drying process and also the moisture content reduction rate was comparatively faster in the smart dehydrator.

Keywords: Dehydrator, moisture ratio, agricultural product, IoT.

RTIMES23030

PERFORMANCE STUDY OF HEMP SEED OIL BIODIESEL ON DIESEL ENGINE

Sathisha K G^{1*}, Srikanth M A², Omkar Anvekar², Vinaykumar D V², Supreet B Salimath²
¹Associate professor, Department of Marine Engineering, Srinivas Institute of Technology, Valachil,

Mangaluru-574143, Karnataka, India.

² UG scholars, Department of Marine Engineering, Srinivas Institute of Technology, Valachil,
Mangaluru-574143, Karnataka, India

Abstract

Biodiesel is an alternative diesel fuel that is produced from plants seeds and animal. The study of biodiesel fuel and blended fuel is very timely because of arising problems such as rising fuel prices, global warming, and health issues such as respiratory diseases caused by petroleum-based fuels. This is due to the high levels of CO₂, CO, and NO_x emitted by the engine following the combustion of petroleum-based fuels. To address the issue, an alternative fuel that meets emission standards is required. The present work deals with the oil extraction from the hemp seeds which are abundantly available in the states of Uttarakhand. The goal of this project is to control the hazards caused by emissions without modifying the engines, as well as to study the performance of engines using diesel blends. The performance and emission tests on a single cylinder 4 stroke diesel engine were conducted with biodiesel blends of B20 and B30 at different loads.

Keywords: *Hemp oil, Biodiesel, Transesterification, Performance test, Analysis.*

PO-2

**STUDY ON OPTICAL, SPECTRAL AND PHOTOPHYSICAL
PROPERTIES OF (2Z)-1-(3-CHLOROPHENYL)-3-(2,4,6-
TRIMETHOXYPHENYL) PROP-2-EN-1-ONE**

Harshith B¹ and Suryanarayana K^{2*}, Jayarama³ and Richard Pinto⁴ and Jayaprakash Gowda⁵

¹ Department of Physics, St Aloysius College, Mangalore, Karnataka, India

^{2*} Department of Physics, Srinivas Institute of Technology, Merla padav, Addyar, Valachil, Mangalore, Karnataka, India- 574143.,

³ Department of Physics, Alva's Institute of Engineering and Technology, Moodabidri 574225, India

⁴ Department of Electronics and Communication Engineering, Alva's Institute of Engineering and Technology, Moodabidri 574225, India

⁵ Department of Electronics, St Aloysius College, Mangalore, Karnataka, India Corresponding Authors

Email*:surya_nekkare@yahoo.com, ** jrmarasalike@gmail.com

We present a comprehensive study on the optical and spectral characterization of (2Z)-1-(3-chlorophenyl)-3-(2,4,6-trimethoxyphenyl) prop2-en-1-one, synthesized through the Claisen-Schmidt condensation method. The synthesis involved the combination of substituted 3'-Chloroacetophenone and substituted 2,4,6 Trimethoxybenzaldehyde in the presence of sodium hydroxide as an alkali. The resulting compound was obtained as a precipitate, which was collected, dried, and subjected to recrystallization using methanol. To assess the photophysical properties and nonlinear optics of 3CPTP, we performed a comprehensive analysis. UV-Vis-NIR spectra revealed the absorption and electronic transitions in the compound, providing insights into its optical properties. Thermal properties were investigated using thermogravimetric analysis (TGA) and differential scanning calorimetry (DSC), offering valuable information about its stability and phase transitions. Spectral properties were studied using Fourier-transform infrared spectroscopy (FTIR), elucidating the vibrational modes and structural features of the compound.

KEYWORDS: FTIR spectroscopy, Claisen-Schmidt condensation, UV-Vis-NIR spectra, Thermal properties

P-1

EFFECT OF AgNO_3 DOPING ON MICROSTRUCTURE, OPTICAL AND DIELECTRIC PROPERTIES OF PVA/PVP POLYMER BLEND COMPOSITES

Sahana G. K^{1,2}, Ganesh Sanjeev^{2,*}, Suryanarayana K¹, Amitha H¹, Shreedatta Hegde², Mohan Kumar², Ramaraja Varma V²

¹Department of Physics, Srinivas Institute of Technology, Mangalore-574143.

²Department of studies in Physics, Mangalore University, Mangalagangothri-574199

Email id: sahana.shiva86@gmail.com

In the present study, polymer blend composite films consisting of Poly (vinyl alcohol) (PVA) and Poly (vinyl pyrrolidone) (PVP) doped with various concentrations of silver nitrate (AgNO_3) were prepared by solution casting method. X-ray diffraction (XRD) results showed that the degree of crystallinity and crystallite size in the polymer blend composites decrease with dopant concentrations, whereas the full width at half maximum (FWHM) increases. Impedance analysis reveals reduction in relaxation time of charge carriers as the doping level increases. Dielectric studies showed decrease in tangent loss with increasing frequency. UV-visible spectroscopy results revealed the decrease in absorption edge from 5.03 eV (pure PVA/PVPV) to 1.55 eV (28wt% AgNO_3) and optical parameters such as the extinction coefficient as well as refractive index exhibit an increase with higher dopant concentrations. The Urbach energy is found to be increased with dopant concentrations which indicates an increase in amorphous nature of the polymer blend composites. Enhanced refractive index resulting from salt doping broadens its applicability across various fields like display technologies, advanced organic light-emitting diodes (OLEDs), and semiconductor applications.

KEY WORDS: X-ray diffraction, FWHM, Dielectric Studies, UV-visible spectroscopy.