



Sharad Institute of Technology, College of Engineering Yadrav- (Ichalkaranji)
(An Autonomous Institute)

JOURNAL PUBLICATION
ACADEMIC YEAR 2024-2025

S. N.	Department	Name of Authors	Title of Paper	Name of Journal	SCI/ESCI/ SCIE/Scopus/UGC care/Other	Q1/ Q2/ Q3/ Q4	Publisher	DOI/ Vol. Issue & page no	Date of Publication	Collaborative Publications IIT/ NIT, QS (0-300), NIRF (0-100 for last A.Y)
1	Automation and Robotics	Dr Govind S Patel	The Role of composite material in Electric Vehicle: enhancements in performance safety and efficiency	Journal of polymer and Composites	ESCI		STM	13(2)	Feb 2025	
2	Automation and Robotics	Dr Govind S Patel	Advancements in polymer composites for Hybrid electric vehicles: market potential and future directions	Journal of polymer and Composites	ESCI		STM	13(2)	Jan 2025	
3	Automation and Robotics	Govind Singh Patel, Janmenjay Desai, Rushikesh Dandage, Ashish A Desai	Web 3.0 Technologies in Education, Innovation and Research	Indian Journal of Technical Education, Vol. 47, Issue 1, Aug 2024 (2024-2025)	UGC CARE		Indian Society for Technical Education	Vol. 47, Issue 1, Aug 2024	Aug 2024	
4	Automation and Robotics	Revati Madake, Alfija Tambat, Sanskruti Pujari, Govind S. Patel	Design and Development of Robotic Grippers for Safety Manipulating Medical Tools, with Enhancing Precision in Healthcare Procedures	Indian Journal of Technical Education, Vol. 47, Issue 1, Aug 2024 (2024-2025)	UGC CARE		Indian Society for Technical Education	Vol. 47, Issue 1, Aug 2024	Aug 2024	
5	Automation and Robotics	A A Desai, S.N. Khan	Innovations and Challenges in Laser Beam Machining of Hybrid Fiber Reinforcement Polymer Composites: A Critical Review	Indian Journal of Technical Education, Vol. 47, Issue 1, Aug 2024 (2024-2025)	UGC CARE		Indian Society for Technical Education	Vol. 47, Issue 1, Aug 2024	Aug 2024	
6	Automation and Robotics	S.V. Kumbhar	A review on potential alternative fuels and blending with petrol for spark ignition engines	Indian Journal of Technical Education, Vol. 47, Issue 1, Aug 2024 (2024-2025)	UGC CARE		Indian Society for Technical Education	Vol. 47, Issue 1, Aug 2024	Aug 2024	
7	Automation and Robotics	S.V. Kumbhar	A systematic review on weighing, packaging, dispensing and sorting techniques using Machine learning algorithm in Automation Industry	Indian Journal of Technical Education, Vol. 47, Issue 1, Aug 2024 (2024-2025)	UGC CARE		Indian Society for Technical Education	Vol. 47, Issue 1, Aug 2024	Aug 2024	
8	Automation and Robotics	Kalaka Annamma, Sobhit Saxena, G. S. Patel	Analysis of CSVCO with different low power technique for improved performance of PLL	Journal of technology	UGC CARE, Scopus		Journal of technology	DOI:18.15001/JO T.2024/V12I9.24.709, Vol. 12, Issue 9, Sep 2024, pp. 456-463	Sep 2024	
9	Automation and Robotics	Ashish A Desai , S.N. Khan, Pooja Bagane, Sagar Dnyandev Patil	Multi-objective optimization of laser machining parameters for carbon-glass reinforced hybrid composites: Integrating gray relational analysis, regression, and ANN	MethodsX	UGC CARE, Scopus		Elsevier	Vol 13, Nov 2024, https://doi.org/10.1016/j.mex.2024.103066	Nov 2024	
10	Automation and Robotics	Ashish Arunrao Desai, Subim Khan	Optimizing Nd: YAG laser cutting of carbon fiber reinforcing polymer with newly developed resin using Taguchi-GRA approach and machine learning integration	Multidiscipline Modeling in Materials and Structures, ISSN: 1573-6105	UGC CARE, Scopus		Emerald Insight	Vol. 20 No. 6, pp. 1213-1228, Sep 2024, https://doi.org/10.1108/MMMS-04-2024-0094	Sep 2024	

11	Automation and Robotics	Revati Madake, Alfija Tambat, Sanskruti Pujari, Govind S. Patel	Design and Development of Robotic Grippers for Safety Manipulating Medical Tools, with Enhancing Precision in Healthcare Procedures	INDIAN JOURNAL OF TECHNICAL EDUCATION	UGC CARE, Scopus		INDIAN SOCIETY FOR TECHNICAL EDUCATION	Vol 47, Sp. Issue, No. 1, pp 266-268	Aug 2024	
12	Automation and Robotics	Ashish A Desai, S.N. Khan, Pooja Bagane, Sagar Dnyandeve Patil	Multi-objective optimization of laser machining parameters for carbon-glass reinforced hybrid composites: Integrating gray relational analysis, regression, and ANN	MethodsX	UGC CARE/ Scopus		Science Direct	Vol 13, Dec 2024, 103066, https://doi.org/10.1016/j.mex.2024.103066	Nov 2024	
13	Automation and Robotics	Sunil Kumar Gupta, Babita Jain, Govind Singh Patel, Atul Kumar, Ashish Raj	The Role of Composite Materials in Electric Vehicles: Enhancements in Performance, Safety, and Efficiency	STM Journals- An imprint of Consortium E-learning network Pvt. Ltd.	ESCI		STM Journals	Vol. 13, Sp. Issue 02, pages 296 310	2025	
14	Civil Engineering	Maloth Naresh, Maloth Ramesh, Ashish Balavant Jadhav	Optimized SVM-based model for health monitoring of joints in a multi-story 3D steel frame structure	Asian Journal of Civil Engineering	Scopus	Q2	Springer	https://doi.org/10.1007/s42107-025-01293-z	45717	
15	Civil Engineering	Maloth Naresh, Ashish Balavant Jadhav, Yogesh S Patil	A combined CNN-LSTM-based technique for joint damage detection in steel frame structures	Asian Journal of Civil Engineering	Scopus	Q2	Springer	https://doi.org/10.1007/s42107-025-01315-w	45717	
16	Civil Engineering	Ashish B. Jadhav, Yogesh S. Patil, Yogesh, Pranoti O. Shirole, Priyanka P. Powar, Vinayak K. Naik, Vinayak, Amruta Ware Amruta	Water quality and proposed restoration for Malgaon Lake, Kolhapur District, Maharashtra State, India	Total Environment Advance	NA		Science Direct	https://doi.org/10.1016/j.teadva.2025.200123	45809	
17	Civil Engineering	Yogesh U. Kulkarni, Amruta D. Ware, Ashish B. Jadhav, Susmita A. Patil, Pranoti O. Shirole, Pooja R. Patil	Effect of Diaphragm Action on Moment Resisting Frames Under Seismic Load		NA					
18	Mechatronics Engineering	Abhijit Banik	A Study on Machining Characteristics of A286 Stainless Steel Material for Turning, Milling and Drilling Operations	Welding International (Taylor & Francis)	SCI	Q3	Taylor & Francis	https://doi.org/10.1080/09507116.2024.2436103	45636	
19	Mechatronics Engineering	Ramesh Maloth	A novel fuzzy assisted sliding mode control approach for frequency regulation of wind-supported autonomous microgrid	Scientific Reports (Nature Publishing Group UK)	SCI	Q2	Nature Portfolio	https://doi.org/10.1038/s41598-024-83202-z	45654	
20	Artificial Intelligence and Data Science	Sukanta Debnath, Upama Das	Control the Axial Displacement of the Rotor Position with Load and No Load Condition in an Active Magnetic Bearing System	Journal of Vibration Engineering & Technologies	SCIE	Q2	Springer Nature Singapore	https://doi.org/10.1007/s42417-024-01519-5	27-Jul-2024	
21	Artificial Intelligence and Data Science	Upama Das, Sukanta Debnath, Suraj Gupta, Pabitra Kumar Biswas, Sujit Kumar Biswas, Thanikanti Sudhakar Babu	Design, simulation and testing of U-type actuator-based single-coil active-magnetic-bearing	Mechanics Based Design of Structures and Machines	SCIE	Q1	Taylor & Francis	https://doi.org/10.1080/15397734.2024.2428756	18-Nov-2024	NIT MIZORAM

22	Artificial Intelligence and Data Science	Debaghya Dutta, Sukanta Debnath, Pabitra Kumar Biswas	Exact analytic technique for designing controller architecture in multi-axis active magnetic bearings with rotor eccentricities	Mechanics Based Design of Structures and Machines	SCIE	Q1	Taylor & Francis	https://doi.org/10.1080/15397734.2024.2438782	9-Dec-2024	NIT MIZORAM
23	Artificial Intelligence and Data Science	Debaghya Dutta, Pabitra Kumar Biswas, Sukanta Debnath, Furkan Ahmad	A Wavelet-Based Analysis for Monitoring Controller Reliability in Active Magnetic Bearing With Rotor Eccentricities	IEEE Access	SCIE	Q1	IEEE	10.1109/ACCESS.2024.3515261	11-Dec-2024	NIT MIZORAM
24	Artificial Intelligence and Data Science	Debaghya Dutta, Pabitra Kumar Biswas, Sukanta Debnath, Furkan Ahmad	Advancements and Challenges in Active Magnetic Bearings: A Comprehensive Review of Performance, Control and Future Prospects	IEEE Access	SCIE	Q1	IEEE	10.1109/ACCESS.2024.3523205	25-Dec-2024	NIT MIZORAM
25	Artificial Intelligence and Data Science	Dr. A.J.Chinchawade	A Review on Performance Enhancement of Deep Learning Based Face Detection System	International Journal of Intelligent Systems and Applications in Engineering	Scopus		Auricle Global Society of Education and Research (AGSER)	https://www.researchgate.net/publication/379449033	2024	
26	Artificial Intelligence and Data Science	Dr. A.J.Chinchawade	Predicting Violent Crime Hot-Spots Utilizing Machine Learning	African Journal of Biological Sciences	Scopus		African Science Publications	10.33472/AFJBS.6.Si2.2024.117-125	2024	
27	Artificial Intelligence and Data Science	Dr. A.J.Chinchawade	Leveraging Big Data Analytics for Enhanced Healthcare: Integration and Impact in the Healthcare Industry	African Journal of Biological Sciences	Scopus		African Science Publications	10.1007/s00530-020-00736-8	2024 (Issue 5)	
28	Artificial Intelligence and Data Science	Dr. A.J.Chinchawade	Developing an Innovative Framework for Generating Unique Aadhaar Cards in India using Python	African Journal of Biological Sciences	Scopus		African Science Publications	https://www.afjbs.com/uploads/paper/3c9409a658f340a289c38d03fe9fa8fb.pdf	2024 (Issue 9)	
29	Artificial Intelligence and Data Science	Dr. A.J.Chinchawade	A deep learning-based analytical survey on Few Shot Image Dataset Clean	African Journal of Biological Sciences	Scopus		African Science Publications	https://afjbs.com/uploads/paper/209a5980f73eb1f7852b1b98df613c5e.pdf	2024 (Issue 12)	
30	Artificial Intelligence and Data Science	Dr. A.J.Chinchawade	Enriching Air Quality Index prediction through hybrid neural network	African Journal of Biological Sciences	Scopus		African Science Publications	10.48047/AFJBS.6.12.2024.303-315	2024 (Issue 12)	
31	Artificial Intelligence and Data Science	Dr. A.J.Chinchawade	Secrecy diversity analysis for physical-layer security of Wireless Sensor Networks	Library Progress International	Scopus		African Science Publications	https://www.researchgate.net/publication/386645575_Secrecy_diversity_analysis_for_physical-layer_security_of_Wireless_Sensor_Networks	Jul-Dec 2024	
32	Basic Science and Humanities	Mrs.P.M.Swami & Dr.G.B.Dapke	Exploring the Exact solutions of Differential Equations:Techniques & Applicatons	African Journal of Biomedical	Scopus			28 No.1S(2025)		

33	Basic Science and Humanities	Mrs.Deepa Karwa	Competent Condition for Geometric Properties Q-Starlikeness and Q-Convexity of Mittag-Leffler Function	Revista Electronics de Veterinaria	Scopus			Vol.25 No.1(2024)		
34	Basic Science and Humanities	Dr.Deepak Gavali	Investigation on the reaction of sulphur with Ag-Cu-Zn-Ge Alloy: Experimental and Computational Study	Journal of Materials Research and Technology	Elsevier	Q1		Vol.33(2024)		
35	Electrical Engineering	M S Kulkarni	Efficient islanding detection in hybrid microgrid: the hybrid approach integrating ROCPAD and IB-RPV	Renewable Energy Focus	Scopus	Q1		Vol 51,2024	05.09.2024	
36	Electrical Engineering	KH Shedbalkar	Refining solar Energy forecasting with optimization and feature Engineering	Journal of Integrated science & Technology	scopus	Q2		Vol13(3),2025	12.12.2024	
37	Electrical Engineering	Dr.Jayanna Kanchikere	Simulation of 5KWp grid connected rooftop solar power plant using PV Watts india	Journal of Electrical systems	other		2024	vol 20-11s	12-2024	
38	Electrical Engineering	Dr.Jayanna Kanchikere	performance & simulation analysis of proposed 100KWp rooftop solar PV Plant	Journal of Engineering & Technology Management	other		JET-M	vol75,PP 123-129	2025	
39	Electrical Engineering	Dr.Jayanna Kanchikere	Design of Biogas plant for SITCOE campus & study of its feasibility	Journal of Engineering & Technology Management	other		JET-M	vol 75, PP 105-117	2025	
40	Mechanical Engineering	Dr.Sagar D Patil and P R Hatte	Composite Material Advancements in Automotive Applications: A review	Indian Journal of Transport Management	Other		CIRT India	July-Sept 24 issue page 17-36		
41	Mechanical Engineering	P R Hatte ,Dr.Sagar D Patil and A A Desai	Applications of Back End Parametric Programming in Computer Numerically Controlled Machining Centre for Developing Artificial Intelligence in Machining	MethodsX	ESCI	Q1	Elsevier	-		
42	Mechanical Engineering	A A Desai, Dr.S.N Khan and Sagar D Patil	Multi-Objective Optimization of Laser Machining Parameters for Carbon-Glass Reinforced Hybrid Composites: Integrating Gray Relational Analysis, Regression, and ANN	MethodsX	ESCI	Q1	Elsevier	-		
43	Mechanical Engineering	Dr. A. M. Takale	Machinability of 14NiCr10 material under AlTiN coating on carbide tools of different chemical composition used for machine tool saddle and tool life monitoring using machine learning.	Proceeding of the iMeche, Part B: Journal of Engineering Manufacture	SCIE	Q1	Sage			
44	Mechanical Engineering	Parag mangave, Nilesh pawar, Ranjit Patil, Vishal Patil	Energy and Exergy Analysis of a SI Engine Fueled with Anisole and Isobutyl Acetate with Super-premium Gasoline	Proceeding of the iMeche, Part C: Journal of Mechanical Engineering Science	SCI, scopus	Q1	IMEche (SAGE)	-		
45	Mechanical Engineering	Mr. B B Sangame, Dr. Y P Reddy	Investigation on effect of different types of inoculants on the solidification of ductile cast iron using thermal analysis.	Multidiscipline Modeling in Materials and Structures	SCIE, SCOPUS	Q2	Emerald			
46	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy1, Dr. Vishal V. Patil2, Dr. Sagar D. Patil3	REVOLUTIONIZING MOBILITY: A COMPREHENSIVE STUDY OF MODERN VEHICLE TECHNOLOGY	Indian Journal of Transport Management	Peer review		CIRT India	Under review		
47	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	Experimental Investigation of Phase Change Material (PCM) Heat sink	ES Materials & Manufacturing (ES Mater. Manuf.)	SCOPUS	Q1	ES Journal	Under review		
48	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	Integrating Virtual Reality with Robotics: A Review of Techniques and Technologies	Asian Review of Mechanical Engineering	Peer review		CRI Journal	Accepted		
49	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	Harmonizing Responsibilities: Challenges and Opportunities in Climate Change and SDGs Integration	ARSS	Peer review		CRI Journal	Under review		

50	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	Performance improvement and energy saving of refrigeration system by waste heat recovery and thermal storage system	Engineered Science	SCOPUS		ES Journal	ID ES-2024-0122		
51	Mechanical Engineering	Mr. Avesahemad		The Asian Review of Civil Engineering	Peer review		Centre for Research and Innovation	ISSN: 2249-6203		
52	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	Harmonizing Responsibilities: Challenges and Opportunities in the Integration of Climate Change and Sustainable Development Goals (SDGs)	The Asian Review of Civil Engineering	Peer review		Centre for Research and Innovation	ISSN: 2249-6203 (P); 2583-7893 (E) Vol.13 No.1, 2024, pp.30-43		
53	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	Prosthetics for Lower Limb Amputees: A Comprehensive Review of Technologies, Applications, and Future Directions	Asian Journal of Engineering and Applied Technology	Peer review		Centre for Research and Innovation	ISSN: 2249-068X (P) Vol.13 No.1, 2024, pp.1-7		
54	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	The Impact of Virtual Reality Integration in Robotics: Enhancing Efficiency, Safety, and Human-Robot Interaction	Asian Review of Mechanical Engineering	Peer review		Centre for Research and Innovation	ISSN: 2249-6289 (P) Vol.12 No.2, 2023, pp.28-34		
55	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	Biomechanical Integration of an Active Prosthetic Ankle for Motorcycle Riding in Lower Limb Amputees	Asian Review of Mechanical Engineering	Peer review		Centre for Research and Innovation	ISSN: 2249-6289 (P) Vol.12 No.2, 2023, pp.46-52		
56	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	Biomechanical Integration of an Active Prosthetic Ankle for Motorcycle Riding in Lower Limb Amputees	Asian Review of Mechanical Engineering	Peer review		Centre for Research and Innovation	ISSN: 2249-6289 (P) Vol.12 No.2, 2023, pp.46-52		
57	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	A Review on Robotics and Automation in the 21st Century: Shaping the Future of Manufacturing, Healthcare, and Service Sectors	Asian Review of Mechanical Engineering	Peer review		Centre for Research and Innovation	ISSN: 2249-6289 (P) Vol.12 No.2, 2023, pp.41-45		
58	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy	Experimental evaluation of an active prosthetic ankle for lower limb amputees: performance, usability, and user feedback	ES Materials and Manufacturing	SCOPUS	Q1	ES Journal	Under review		
59	Mechanical Engineering	Mr. Avesahemad Sayyadnaimutulla Husainy, S D Patil	Revolutionizing Mobility: A Comprehensive Study Of Modern Vehicle Technology.	CIRT journal	Peer review		CIRT journal	Under review		
60	Mechanical Engineering	Ms. Vidya S. Patil	A Study on Machining Characteristics of A286 Stainless Steel Material for Turning, Milling and Drilling Operations	American Institute of Physics	SCOPUS		AIP Publishing	DOI: 10.1063/5.0229727		
61	Mechanical Engineering	Padmakumar A. Bajakke	Sustainable fabrication of SS-316 foams from machining waste via microwave sintering: a new route for energy application properties	Advances in Materials and Processing Technologies	ESCI	Q2	Taylor & Francis	https://doi.org/10.1080/2374068X.2025.2530984	2025	
62	Electronics & Computer Engineering	Dr Sachin S Gurav	Atmospheric Water generator using Smart Automation Systems	International Journal of Electrical and Electronics Engineering	SCOPUS	Q4	SSRG	ISSN 2348:8379		
63	Electronics & Computer Engineering	Dr Sachin S Gurav	Design and Performance of Dual Band Microstrip Nano-Fractal Patch Antenna	Nanotechnology Perceptions	Scopus	Q4	Collegium Basilea	ISSN: 16606795 DOI: 10.62441/nano-nt p.v20iS8.97		
64	Electronics & Computer Engineering	Dr. Pravinkumar S.	Mathematical Models of Non-linear Phenomena in wireless Security	Communications on applied Nonlinear analysis	Scopus	Q4	Elsevier	https://doi.org/10.52783/cana.v31.1.248	45505	

65	Electronics & Computer Engineering	Mrs. M S Mali	Hybrid QDCNN-DNFN for Laryngeal Cancer Detection Using Image and Voice Analysis in Federated Learning	Sensing and Imaging	Scopus	Q3	Springer	ISSN:1557-2072, https://doi.org/10.1007/s11220-024-00531-z	45644	
66	Electronics & Computer Engineering	Dr.Sharda Y. Salunkhe	ZF-QDCNN: ZFNet and Quantum Dilated Convolutional Neural Network based Alzheimer's disease detection using MRI images	Network: Computation in Neural Systems	SCI	Q2	Taylor & Francis	https://www.tandfonline.com/doi/full/10.1080/0954898X.2025.2452288	11 Feb 2025.	
67	Electronics & Computer Engineering	Bhagyashree Krishnarao Jagtap	Journal of Artificial Intelligence, Machine Learning and Neural Network	Nano Techonology for Enviornmental Engineering	Scopus	Q2	Springer	https://doi.org/10.1007/s41204-024-00367-8	22nd March 2024	
68	Computer Science and Engineering	Dr.S.B.Gurav	Optimization assisted ensemble classification for prediction of chronic kidney diseases	Springer	scopus	Q1	Springer Nature Multimedia Tools and Applications	https://doi.org/10.1007/s11042-024-19610-0	45489	
69	Computer Science and Engineering	Dr.S.B.Gurav	Multi-objective optimal 4-phase RPI routing technique using chimp sine cosine algorithm for IoT system	Springer	scopus	Q2	Springer Nature, Wireless Networks	https://doi.org/10.1007/s11276-025-03920-8	45732	
70	Computer Science and Engineering	Dr.B.Dhanasekaran	NEP2020 for Undergraduate Courses Challenges and Opportunities	IJAEMA	UGC care		The International Journal Of Analytical And Experimental Modal Analysis	ISSN NO:0886-9367/ web: http://ijaema.com	45658	
71	Computer Science and Engineering	Dr.B.Dhanasekaran	Using the Educational Data With Weka to improve the quality of Education System	IRJMETS	Other		International Research Journal of Modernization in Engineering Technology and Science	https://doi.org/10.56726/IRJMETS66631	45681	

