



Annasaheb Dange College of Engineering and Technology, Ashta
(An Empowered Autonomous Institute affiliated to Shivaji University, Kolhapur)
(NAAC A++ Grade Accredited Institute, NBA Accredited Programs)
Office of Dean Research, Innovation and Startups



Faculty Publication AY 2023-24

Sr. No	Department Wise Sr.No	Faculty Name	Title of Paper	Publication Date	Publisher
Department of Mechanical Engineering					
1.	1.	Mr. R.R.Gaji Dr. P. D. Kulkarni	Improving the efficiency of parametric scanning and device control via pre-filtering and multi-component hardware modelling	01-06-2023	Preface: First International Conference on Innovations in Computer Science, Electronics & Electrical Engineering (ICICEEE-2022)
2.	2.	Dr. L. Y. Waghmode	Design of energy harvesting magneto-rheological fluid damper for vehicle	01-08-2023	Materials Today: Proceedings
3.	3.	Mr. G. M. Chendke	Servomotor Pitching Control Method for H-Type Darrieus Turbine	11-08-2023	Taylor & Francis: Electric Power Components and Systems
4.	4.	Dr. A. A. Jadhav	An experimental and analytical approach while predicting damped vibration responses of machine tool installed on a tuneable-damper foundation (TDF) via dimension theory foundation (TDF) via dimension theory	15-08-2023	Journal of the International Measurement Confederation
5.	5.	Dr. V. B. Patil	Means of Enhancing the Power Output and Widening the Operational Frequency Band of Vibration-Based Electromagnetic Energy Harvester	24-08-2023	Springer: Journal of Vibration Engineering and Technologies
6.	6.	Dr. S. P. Chavan, Dr. M. M. Jadhav, Mr. K. J. Burle	Pump Vibration due to Shaft Misalignment	01-10-2023	Technical Torque, pump valves and systems (https://www.pvsmag.com/)



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7.	7.	Mr. K. I. Nargatti	Graphene-Based Inks for Flexible Supercapacitor Electrodes: A Review	01-12-2023	ACS: Applied Electronic Materials
8.	8.	Mr. S. V. Nishandar	Test Result Analysis: A Catalyst for Quality Assurance of Assessment in Outcome Based Education	01-01-2024	International Conference on Transformations in Engineering Education (ICTIEE 2024)
9.	9.	Dr. L. Y Waghmode	Numerical Analysis for Determination of the Damping Force of the Magneto-rheological (MR) Fluid Damper	01-01-2024	ISTE Journal
10.	10.	Mr. K. I. Nargatti	Environmentally Friendly Water-Based Reduced Graphene Oxide/Cellulose Nanofiber Ink for Supercapacitor Electrode Applications	01-02-2024	American Chemical Society ACS Omega 2024 9 (10), 11730-11737
11.	11.	Mr. R. R. Gaji	Investigating the Impact of Back Cavity Filling and Axial Clearance on the Flow Physics and Performance of a Pump as Turbine	01-03-2024	Journal of Applied Fluid Mechanics
12.	12.	Mr. A. M. Pirjade	Development of Petrol Engine Powered Multipurpose Farming Equipement	04-04-2024	International Journal of Engineering Technology Research & Management
13.	13.	Mr. K. J. Burle	Design of multipurpose indexer: a multi role job handling device	15-04-2024	Journal of Progressive Research In Engineering Management and Science
14.	14.	Mr. A. A. Mohite	Smart shopping trolley Using Arduino UNO	10-11-2024	IEEE



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15.	15.	Mr. S. V. Nishandar	Computational modelling and analysis of heat transfer enhancement in straight circular pipe with pulsating flow	06-06-2024	Springer
16.	16.	Mr. S. V. Nishandar	Computational Analysis of Pulsating Pipe Flow for Heat and Flow Characteristics Enhancement	05-12-2024	Material Science Research India
17.	17.	Mrs. Priya Shinde	Non-Trivial Characteristics of Varying Thickness Battery Casing on Thermal Performance of BTMS	18-12-2024	Material Science Research India
18.	18.	Mrs. Sayali Jadhav	Enhancing Sound Quality through Audio Beam Formation: A MVDR Algorithm Approach with Linear Microphone Arrays		Yildiz Technical University
19.	19.	Mr. S. V. Patil, Dr. L. Y. Waghmode, Mr. P. B. Patil, Mr. Y. P. Ballal, Mr. A. R. Mane	Application of Low-Cost Automation for Corrugated Box Flaps Twisting to Improve Productivity	05-08-2024	Taylor & Francis
20.	20.	Dr. M. M. Jadhav	Natural Fiber Thermoplastic Composites For Mechanical And Biodegradability Properties	30-10-2024	African Journal of Biomedical research
21.	21.	Mr. P. V. Mali, Mr. H. H. Patil	IOT Controlled Engine Powered Sprayer Machine	10-11-2024	IEEE
22.	22.	Dr. M. M. Jadhav, Mr. G. B. Pawar	Enhanced biodegradability and mechanical properties in green composites: a Taguchi approach	28-12-2024	Springer
23.	23.	Dr. M. M. Jadhav	An Overview on Industrial Waste Water Submersible Pump	11-02-2025	International Journal on Science and Technology



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Department of Computer Science Engineering					
24.	1.	Mrs. Neha Surayawanshi	Secure Big Data Storage on Multi-Cloud Servers with Enhanced Attribute-Based Access Control	August 2023	IJRASET
25.	2.	Arifa Shikalgar	Deep Kernalized Dimensionality Reducer for Multi-Modality Heterogeneous Data	May, 2024	Springer
26.	3.	Suhel Sayyad	Online Education Using E-Learning Tools - A Survey	August, 2023	IJ Publication
27.	4.	Suhel Sayyad	Face recognition for classroom attendance based on convolutional neural network	August, 2023	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)
28.	5.	Shrihari Khatawkar	HAB&ML Model to Improve the Security & QOS Performance of Industrial IoT	17-02-2023	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)
29.	6.	Shrihari Khatawkar	Disease detection on pomegranate fruits using machine learning approach	22-06-2023	International Journal of Intelligent Systems and Applications in Engineering (IJISAE)
30.	7.	Amolkumar Jadhav, Pravin More, Satish Ranbhise, Swapnil Kadam	Grouping of Brain Illness using Convolutional Neural Network	2024	Science China Press
31.	8.	Archana Chougule, Ashvini S.Patil	LSTM based Speech Emotion Recognition (SER) for Analyzing Patient's Verbal Feedback	March, 2025	Springer
32.	9.	Shrihari Khatawkar	Comparative study of efficient automated multiple disease diagnosis model using ensemble learning	15-06-2023	by CRC Press, Taylor & Francis Group



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33.	10.	Vijay Katkar	Harnessing Ridge Regression and SHAP for Predicting Student Grades: An Approach towards Explainable AI in Education	December, 2024	by CRC Press, Taylor & Francis Group
34.	11.	Amolkumar Jadhav	Nurturing Awareness and Responsible Practices in E-waste Management	30-11-2023	Auricle Global Society of Education and Research
35.	12.	Amolkumar Jadhav, Shrihari D. Khatawkar	Neurological Disorder Classification using Convolutional Neural Networks	21-02-2024	Auricle Global Society of Education and Research
36.	13.	Amol Dange	Text Matching Technique-based Intelligent Web Crawler in Hybrid Mode	September 23, 2023.	Intelligent Networks and Systems Society
37.	14.	Amol Dange	Efficient intelligent crawler for hamming distance based on prioritization of web documents	April, 2024	Institute of Advanced Engineering and Science (IAES)
38.	15.	Amol Dange	Ranking of Documents Through Smart Crawler	October, 2023	Institute of Advanced Engineering and Science (IAES)
Department of Electrical Engineering					
39.	1.	Dr. P. Balakrishnan & Dr. S. Gopinath	A hybrid approach for enhancing the dynamic stability in power system	September, 2023	Taylor and Francis
40.	2.	Dr. M. Palpandian	One-step adaptive reconfiguration technique for partial shaded photovoltaic array	October, 2023	Elsevier
41.	3.	Dr. M. Palpandian	Performance Analysis of Novel Solar PV Array Configurations with Reduced Tie Interconnection to Extract Maximum Power under Partial Shading	November, 2023	Taylor and Francis



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42.	4.	Dr. P. Balakrishnan	Enhancing photo voltaic solar panel efficiency by using a combination of silica based and phase change material coating	December, 2023	IOP Publication
43.	5.	Mr. Amit B. Jadhav	21 Level Asymmetric Inverter without Inversion Circuit with Reduced Switch Count for BLDC Motor Drive	December, 2023	MAT Journals Pvt. Ltd.
44.	6.	Dr. Manoj Dhondiram Patil	PWM Technique for Bidirectional AC/DC Converters with Feedforward Control in Grid-Linked Microgrid Systems	December, 2023	MAT Journals Pvt. Ltd.
45.	7.	Dr. M. Palpandian	Novel Active Battery Balancing Methodologies for Lithium Batteries: An Experimental Comparative Analysis	January, 2024	Wiley
46.	8.	Mr. Santhosh Vilas Patil	Performance and reproducibility analysis of zinc sulfo-selenide and cuprous oxide based perovskite solar cell: A SCAPS study	April, 2024	IOP Publication
47.	9.	N. Vengadachalam, P. Balakrishnan	Enhancing Distribution Network Efficiency with Andean Condor Algorithm-Driven Optimal Placement of Distributed Generation and Network Reconfiguration	April, 2024	T& F
48.	10.	P. Balakrishnan, S. Gopinath	PV Wind Battery Based DC Microgrid with Neural Network MPPT	2024	JES
49.	11.	Dr. M. Palpandian	A novel Global maximum power extraction technique for partial shaded solar PV system	August 2024	Elsevier



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50.	12.	P. Balakrishnan, S. Gopinath	QZSI based high efficient wind energy tracking by modified fuzzy logic based hill climbing search (HCS) algorithm	20-09-2023	AIP Conf. Proc. 2831
51.	13.	Amit B.Jadhav	A Research Based Review on Power Quality Improvement Using EVs with Reference to Smart Grids	December, 2023	IEEE 5th International Conference on Cybernetics, Cognition and Machine Learning Applications (ICCCMLA), 2023
52.	14.	R. Arulmurugan	Analysis of interleaved fuzzy Logic MPPT approach for PV system	2023	In Journal of Physics: Conference Series
53.	15.	Gajkumar Kavathekar	Flyback Inverter Paperback		LAP Lambert Academic Publishing
54.	16.	P. Balakrishnan, N. Vengadachalam, R. Arul Murugan, V. Subha Seethalakshmi	Dimesion of ICT Based Student Evaluation and Assessment in Educational Secotr	December, 2024	Edtech
55.	17.	P. Balakrishnan, N. Vengadachalam, R. Arul Murugan, V. Subha Seethalakshmi	Effectiveness of online education system		Edtech
Department of Aeronautical Engineering					
56.	1.	Raghavendra Nandagiri, Sendhil Kumar S, Purnank Nagrale, Vaibhav Chaure, Sujeet Chormare, Animesh Chandrikapure, and Devabrata Sahoo	Computational Analysis for Optimal Location of Open Sunroof for an SUV With Ahmed Body Profile	17-08-2023	AIP Conference Proceedings



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57.	2.	Vijayan S. N., S. Sendhil Kumar, and S. Karthik,	Thermal Efficiency Investigation of a Solar Parabolic through Collector System Using Two Dissimilar Reflectors	25-10-2023	Taylor & Francis Publications, Apple Academic Press, Inc. Co- published with CRC Press
58.	3.	Kothandan, Vivekanandan Alangadu, Chang Shao-Fu, Li Zhong- You, and Chen Shih- Hsun.	Growth kinetics of crumb-like structure formation on SnO ₂ nanowires during direct oxidation	October, 2023	Cell Press Journal
59.	4.	Periyasamy K, Parthasarathy Natarajan K.	Supersonic jet noise and screech tone suppression using cross-wire	2023	Sage Journals
60.	5.	Yuvaraj, S., Adithya, A., Banu, G., & Srithar, S. (2023).	Numerical and experimental investigation of airfoil derived from peregrine FALCON.	2023	Sage Journals
61.	6.	S. Yuvaraj, Y. B. Kumbhar, and C. J. Thomas Renald,	Influence of ZnO, Al ₂ O ₃ , CeO ₂ nanoparticle added CME biodiesel HRF on RCCI engine's performance	2023	Sage Journals
62.	7.	Kaleeswaran Periyasamy	Experimental Investigation of Supersonic Jet Noise Mitigation of CD Nozzle with Crosswire	2023	Sage Journals
63.	8.	A. G. Patil, K. Vivekanandan, A. B. Hemavathi, S. Suri, R. Pande, S. Kagale, S. Yadav and G.Patil,	Sustainable waste water treatment using magnetic nanohybrids	December, 2023	IWA Publishing



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64.	9.	Tushar Baraskar, Hitesh Rathod, Sabarishwaran R and Reju R	Modelling and Development of Non-Vectored Tail-Sitter UAV	2023	IWA Publishing
65.	10.	Deepak Kumar P, Vivekanandan A K and Karthik Reddy P V S	Optimizing Turbofan Engine Performance Through Nozzle Choking Characteristic	2023	IWA Publishing
66.	11.	Mari Prabu Govindan, Oblisamy L and Sanoj P P Suresh	Static structural analysis of turbine disc with different configuration subjected to thermal loads and torque	2023	IWA Publishing
67.	12.	Sanoj P Suresh, Sanoj P Suresh, Jagat Rath and Gautam Choubey	Performance enhancement of NACA 0012 airfoil using a leading-edge duct: an experimental and computational study	2023	IWA Publishing
68.	13.	Ritesh Mane, Rohit Kumar Prasad and K. M. Kiran Babu	Optimizing Variable Volume Balloon Design for Venus: A Computational Study of Drag Coefficients Using ANSYS- Fluent CFD	2023	IWA Publishing
69.	14.	Dr. Yuvaraj S, Aditya Satish Dalvi, Sanika Ravindra Satpute and Sanket Suresh Revenkar	Research study and modelling of PEMFC for drone applications	2023	IWA Publishing



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70.	15.	Oblisamy L, Basithrahman A, Hruturaj Mankar, Shruti Kulkarni, Shivani Kulkarni and Jeetisha Jadhav	Experimental Investigation on the Vibration and Energy Absorption of a Foam-Based Multi-Fiber Polymer Composite	2023	IWA Publishing
Department of Civil Engineering					
71.	1.	Dr. S. S. Mohite	Strengthening of existing column using steel plates: Finite Element Analysis	August, 2023	Editorial Board of Journal of Harbin Engineering
72.	2.	Mr. B. V. Mane	Integrated Investigation and FEM Analysis of Long Span Steel Bridges for Incremental Launching Method	August, 2023	Editorial Board of Journal of Harbin Engineering
73.	3.	Mr. A. G. Mujawar	Seismic Analysis of High-Rise RCC Building Structure with Steel Outriggers and Belt Truss System	August, 2023	Editorial Board of Journal of Harbin Engineering
74.	4.	Mrs. V. M. Patil	Review On Analytical And Numerical Models To Predict The Behaviour Of Rolled Steel I Beams Strengthened By Frp	August, 2023	Shanghai Research Institute of Materials
75.	5.	Mr. B. V. Mane	Structural Health Monitoring Of Bridge Using Wireless Sensors	August, 2023	Editorial Board of Journal of Harbin Engineering
76.	6.	Dr. S. S. Mohite Mr. B. V. Mane	To Study the Comparative Analysis of Multi-storey Building with Floating and Rotating Column	August, 2023	Editorial Board of Journal of Harbin Engineering



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77.	7.	Dr. S. B. Hivarekar	Assessing The Efficiency of TiO2 Impregnated Clay Filters For Point-Of-Use Water Treatment: A Bacterial Treatment Study	August, 2023	Shanghai Research Institute of Materials
78.	8.	Mr. P. A. Mali Mr. R. V. Jadhav	Artificial Intelligence Models For Estimating Evapotranspiration.	January, 2024	IJESRT
79.	9.	Dr. M. H. Mota Dr. S. B. Hivarekar Mr. A. G. Mujawar	Assessment of Degradation in Water Quality of River Krishna at Sangli, using Water Quality Index.	January, 2024	Kalpana Corporation
Department of Food Technology					
80.	1.	Dr. Anirudh G. Patil	Review Millet processing by-products: sustainable applications in food and non-food sectors"	2024	Springer Nature
81.	2.	Dr. Anirudh G. Patil	Assessing the feasibility of inorganic nanomaterials for nanohybrids formation	2023	IWA
82.	3.	Dr. Anirudh G. Patil	Beetroot Probiotics –Health Drink Transforming I (Illness) to We (Wellness) Food Bioprocessing and Fermentation	2024	Innovation in Food Processing Technology & Nutrition, 2024
83.	4.	Dr. Anirudh G. Patil	Emerging Technology in Food Processing-III	2024	International Conference on Emerging Technologies in Food Processing-III (ETFP-2024)
84.	5.	Dr. Anirudh G. Patil	Exploring the frontiers of Insilco drug discovery :-Trends, Challenges & Opportunities	2024	International E-Conference on Exploring the Frontiers of In-Silico Drug Discovery: Trends, Challenges & Opportunities



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Department of Artificial Intelligence & Data Science					
85.	1.	Dr. Asma A Shaikh	Application-Oriented Reviews and Products of Parallel Deep Neural Networks in Recommendation Systems.	21-09-2023	IJISAE
86.	2.	Dr. Asma A Shaikh	Experimental Hybrid Technique for Enhancing the Quality of Personalized Product Recommendation System using Deep Learning.	21-09-2023	IJISAE
87.	3.	Mrs. Rama V Kaulgud	Detection of lung nodules from the CT images with the Border collie Optimizationbased DCNN classifier	15-03-2024	IEEE
88.	4.	Ms.Tejswini S Danwadkar	Tomato plant leaf disease detection using convolution neural network	March, 2024	International journal on recent and Innovation Trends in Computing and Communication
89.	5.	Mrs. Rama V Kaulgud	Analysis based on machine and deep learning techniques for the accurate detection of lung nodules from CT images	23-08-2023	Elsevier
90.	6.	Dr. Asma A Shaikh	Drone-based reconnaissance for Paddy Leaf Disease Classification using a Superior Hybrid CNN Model: A Deep Learning Comparative Analysis	24-03-2024	IJISAE



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Department of Computer Science (IoT & Cyber Security Including Block Chain Technology)					
91.	1.	Dr . Ashok J	Securing the Information using Improved Modular Encryption Standard in Cloud Computing Enviroment	10-10-2023	THIS
92.	2.	Dr . Ashok J	Develop the Ubiquitous computing weatable IOT Device using IoT distributed Framework	15-12-2023	Elsevier
93.	3.	Shreekant Salotagi	Optial task Scheduling on Agri - Iot with Optimal Clustering and Multi-Cast routing		SCImago Journal
Department of Basic Science					
94.	1.	Dr. S.B. Mali	Enhance english language earning with Artificial Intelligence (AI) tools.	January, 2024	NEW ACADEMIA: An International Journal of English Language, Literature and Literary Theory
95.	2.	Mr. A. A. Patil	A study of fragmented self in Jean Arasanayagam's Poetry	January, 2024	NEW ACADEMIA: An International Journal of English Language, Literature and Literary Theory
96.	3.	Mr. M. R. Mulla	Transnationalism and its influences on indian society	January, 2024	NEW ACADEMIA: An International Journal of English Language, Literature and Literary Theory