

**Shri Ramdeobaba College of Engineering and Management, Nagpur -440013**  
**Department of Mechanical Engineering**  
**Research and Development Activities**  
**Publications in Conferences**

S. No .	Type of Conference (National/International )	Name of the Author	Names of the Co Authors	Title of the Paper	Name of the Conference	Organisation details and Place	Dates of the Conference	
1	International	Vishal Shukla	B. Singh, S. Patil	Development of Bio-Inspired Snake Robo	IEEE Conference on Engineering Informatics	Swinburn Univ Astralia & S. Ghodwat Univ Kolhapur	25-26 Nov 2023	
2	International	Priya M. Khandekar	Pranjali S. Deole	Fusion of human arm synergy and artificial neural network for programming of a robot by demonstration	Recent Advances in Materials Manufacturing and Machine Learning Proceedings of 2nd International Conference (RAMMML-23)	YCCE NAGPUR	02-04 FEB 2023	
3	International	Pranjali S. Deole	Priya M. Khandeka	Fusion of human arm synergy and artificial neural network for programming of a robot by demonstration	Recent Advances in Materials Manufacturing and Machine Learning Proceedings of 2nd International Conference (RAMMML-23)	YCCE NAGPUR	02-04 FEB 2023	
4	International	Yogesh Deshpande	Arun Kedar, Sunil Prayagi	Formulation and optimisation of mathematical model of relationship between orgnisational performance and TQM practices in Indian industry	Recent Advances in Materials Manufacturing and Machine Learning Proceedings of 2nd International Conference (RAMMML-23)	YCCE NAGPUR	02-04 FEB 2023	

5	International	Dr. Sachin Pund	Sangita Babu, Sakshi Pandey, Kowstubha Palle, Venkata Prasad Papana, Balasubbareddy Mallala	Adaptive Medical Image Segmentation Using Deep Convolutional Neural Networks	Proceedings - 2023 IEEE International Conference on Paradigm Shift in Information Technologies with Innovative Applications in Global Scenario, ICPSITIAGS 2023	SAGE University, Indore	28-29 December 2023	
6	International	Dr. Sachin Pund	Ashok Kumar Yadav, Sneha Kashyap, Hayder Mahmood Salman, RS Ernest Ravindran, GV Sriramakrishna n	Compared to The Threshold Dependent Segmentation Technique, Normal Type Lung Cancer Identification in CT Images Utilizing Structural Flood Segmentation Process to Enhance Efficiency	2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2023	Galgotias College of Engineering & Technology (GCET)	12-13 May 2023	
7	International	Dr. Sachin Pund	Himanshu Sharma, Sarabpreet Kaur, Imad Saeed Abdulrahman, Snehal Godbole	PAPR Reduction Analysis by Implementing IFFT using Peak Windowing technique for Wireless Communication System	2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2023	Galgotias College of Engineering & Technology (GCET)	12-13 May 2023	

8	International	Dr. Sachin Pund	Dhiraj Singh, S Gopinath, Kowstubha Palle, P Venkata Prasad, Balasubbareddy Mallala	Generative Adversarial Networks for Synthesizing Abnormal Medical Images	Proceedings - 2023 IEEE International Conference on Paradigm Shift in Information Technologies with Innovative Applications in Global Scenario, ICPSITIAGS 2023	SAGE University, Indore	28-29 December 2023	
9	International	Dr. Sachin Pund	Mokhtar Hussein Al-Sarori, Bondili Bhavya Charitha, Ashish Kaushal, Purva Mange, Sudhir Kumar Chaturvedi	Investigating the Effectiveness of Visual Analytics for Discovering Insights from Big Data	2023 International Conference on Power Energy, Environment and Intelligent Control, PEEIC 2023	GL Bajaj Institute of Technology and Management	19-23 December 2023	
10	International	Dr. Sachin Pund	Saket Mishra, VJ Vijayalakshmi, Kowstubha Palle, P Venkata Prasad, Balasubbareddy Mallala	Accurate Cardiac Arrest Risk Forecasting with Ensemble Learning	Proceedings - 2023 IEEE International Conference on Paradigm Shift in Information Technologies with Innovative Applications in Global Scenario, ICPSITIAGS 2023	SAGE University, Indore	28-29 December 2023	

11	International	Dr. Sachin Pund	Safaa Hakeem OBAIDI al-Khafaji, Kowstubha Palle, Lenin Thingbaijam, P Venkata Prasad, Balasubbareddy Mallala,	An Improved Convolutional Neural Network for Medical Image Segmentation	Proceedings - 2023 IEEE International Conference on Paradigm Shift in Information Technologies with Innovative Applications in Global Scenario, ICPSITIAGS 2023	SAGE University, Indore	28-29 December 2023	
12	International	Dr. Sachin Pund	Harshith Babu, Rahul Mishra, P Karthigaikumar , Parikshit N Mahalle, Prasanta Kumar Parid,	Detection of Abnormalities in Chest X-Rays Using Convolutional Neural Networks	Proceedings - 2023 IEEE International Conference on Paradigm Shift in Information Technologies with Innovative Applications in Global Scenario, ICPSITIAGS 2023	SAGE University, Indore	28-29 December 2023	
13	International	Dr. Sachin Pund	Sachin Minocha, KC Krishnachalitha , Sachin Gupta Chancellor, Sura Rahim Alatba, Badria Sulaiman Alfurhood	A finger print recognition using CNN Model	2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2023	Galgotias College of Engineering & Technology (GCET)	12-13 May 2023	

14	International	Dr. Sachin Pund	Ramakant Upadhyay, Sachin S Pund, Vetri Vendan, N Ramya, Mala M Parab, R Rajeswari	Comparing the different Classifier Algorithm to Skin Cancer with more accuracy	2023 3rd International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2023	Galgotias College of Engineering & Technology (GCET)	12-13 May 2023	
15	International	Mangesh Joshi	-	Evaluation of IoT Adoption Barriers in the Sustainable Indian Healthcare Supply Chain: A Pythagorean Fuzzy DEMATEL Approach	International Conference on Production and Industrial Engineering	NIT, Jalandhar	10-12 March 2023	
16	International	Mangesh Joshi	-	"Musculoskeletal Risks Assessment in Bus Body's Roof Stick Manufacturing"	International Conference on Production and Industrial Engineering	NIT, Jalandhar	10-12 March 2023	
17	International	Yogesh Deshpande		Installation of Innovative Fixture for Locating Several Fuse Parts on VMC Pallets for Productivity Enrichment	Second International Conference on Multidisciplinary Research and Innovation (ICMRI), 2024	Department of Mechanical Engineering, Radhakrishna Institute of Technology & Engineering, Bhubaneswar	27/03/2024 -28/03/202 4	

18	International	Yogesh Deshpande		Optimization of surface roughness in turning of aluminium body using response surface methodology	Second International Conference on Multidisciplinary Research and Innovation (ICMRI), 2024	Department of Mechanical Engineering, Radhakrishna Institute of Technology & Engineering, Bhubaneswar	27/03/2024 -28/03/2024	
19	International	Yogesh Deshpande	Purvi Makwana, Gaythri Band, Sheetal V. Deshmukh, Sreesurya Aitha, Prasanta kumar Parida	Exploring the Use of Machine Learning for Edge and Line Detection in Digital Image processing	IEEE 2023 International Conference	GL BAJAJ Institute of Technology & Management, Greater Noida, G.B. Nagar, U.P	19-23, December 2023	

Session: 2024-25								
S. No.	Type of Conference (National/International)	Name of the Author	Names of the Co Authors	Title of the Paper	Name of the Conference	Organisation details and Place	Dates of the Conference	Sponsoring Agency
1	International	Y M Sonkhasar	Dr. P B Shiwalkar, Dr. D R Zanwar	Novel Iterative Methodology for Modifications in Planar Straight Line Crank-Rocker Synthesis	The Fifth International Conference of IFToMM Italy was held at the University	University Politecnico di Torino (Italy)	September 11-13, 2024	RBU

2	International	Y M Sonkhasar	Mohan Nagrurkar, Dr. P B Shiwalkar	Machine Learning Algorithm for Identifying Longer Straight-Line Crank Rocker Coupler curves	The Fifth International Conference of IFToMM Italy was held at the University	University Politecnico di Torino (Italy)	September 11–13, 2024	RBU
3	International	Arjun Singh	Yeshwant Sonkhaskar ; Alok Jha	Design and analysis of Trailing arm suspension system for an All-terrain vehicle	Fifth International Conference on Advances in Physical Sciences and Materials (ICAPSM 2024) held at during 29 - 30, August 2024.	Builders Engineering College, Kangeyam, Tamil Nadu, India	29-30, August 2024	RBU
4	International	Kartik Bawre	Dhruv Dhorajia, Yeshwant Sonkhaskar , Alok Jha	Design and Development of Gearbox Integrated with Transfer Case	Fifth International Conference on Advances in Physical Sciences and Materials (ICAPSM 2024) held at during 29 -30, August 2024.	Builders Engineering College, Kangeyam, Tamil Nadu, India	29-30, August 2024	RBU
5	National	Dr.P.S.Deole	Jinisha Zoting Dipali Gokhe	Exploring Surface Roughness And Tool Vibration Through Experimental Investigation And Modelling With EDM-Textured Cutting Tools	National Conference on Condition Monitoring (NCCM-2024)VNI T Nagpur	Department of Mechanical Engineering, Visvesvaraya National Institute of Technology Nagpur, South Ambazari Road, Nagpur, India	4-5th October 2024	RBU

6	International	Dr. A. K. Jha		Unifying Static Strength, Dynamic Behavior, and Fatigue Resistance in ATV Engineering: An In-Depth Study of Component Performance Across Diverse Loading Conditions	3rd International Conference on Sustainable Technologies and Advances in Automation, Aerospace and Robotics (STAAAR 2024) (co-sponsored by SERB-DST, Government of India) December 13 – 14, 2024	School of Mechanical Engineering (SMEC) VIT Bhopal University Bhopal in Collaboration with Gazi University, Ankara, Turkey and in Association with Material Advantage student chapter of VIT Bhopal University Co-sponsored by SERB, Department of Science and Technology, India	December 13 – 14, 2024	RBU
7	International	A. K. Jha	Dr. G. R. Nikhade	Dynamic Simulation and Torque Analysis of a 5-DOF SCORBOT ER-IV Manipulator for Welding Operations Using MATLAB-SimMechanics	Mechanical Engineering International Conference (MEICON 1.0)..AIP Proceeding (Scopus)	Department of Mechanical Engineering, School of Engineering, OP Jindal University, Raigarh	December 19th & 20th, 2024	RBU
8	International	Dr. G. R. Nikhade	A. K. Jha	Dynamic Simulation and Torque Analysis of a 5-DOF SCORBOT ER-IV Manipulator for Welding Operations Using MATLAB-SimMechanics	Mechanical Engineering International Conference (MEICON 1.0)..AIP Proceeding (Scopus)	Department of Mechanical Engineering, School of Engineering, OP Jindal University, Raigarh	December 19th & 20th, 2024	RBU



9	International	Dr. A.D. Urade		Comparative Study of Heat Transfer of Different Fin Geometries: Theoretical and Simulation Approach	3rd International Conference on Sustainable Technologies and Advances in Automation, Aerospace and Robotics (STAAAR 2024) December 13 – 14, 2024	School of Mechanical Engineering (SMEC) VIT Bhopal University Bhopal in Collaboration with Gazi University, Ankara, Turkey and Co-sponsored by SERB, Department of Science and Technology, India	December 13 – 14, 2024	RBU
10	International	Vishal Shukla		Cyber Twin-Enabled Real-Time AI Orchestration for Advanced IoT Security and Dynamic Software Optimization	IEEE 4th International Conference on Mobile Networks and Wireless Communications (ICMNBC-2024)	IEEE Bangalore Section during 04-05 December 2024 at Sri Siddhartha Institute of Technology, Tumakuru, Karnataka.	04-05 December 2024, Paper ID 1038	RBU
11	International	Dr. T. A. Madankar		INTEGRATING QUANTITATIVE PARAMETERS FOR AUTOMATING MEDICAL EQUIPMENT MAINTENANCE USING INDUSTRY 4.0 AND FMEA.	2nd IEEE DMIHER (DU) On ARTIFICIAL INTELLIGENCE IN HEALTHCARE, EDUCATION & INDUSTRY	Faculty of Engineering & Technology (FEAT), Datta Meghe Institute of Higher Education and Research, Sawangi (M), Wardha, Maharashtra	29-30 Nov 2024	RBU