

## Prof. S. D. Agashe

Sr. No.	Authors	Title of the Publication	Name of the International Journal	Year
<b>2023-24</b>				
1.	Nivedita Wagh, <b>S.D. Agashe</b>	A data-analytic framework to monitor product density of four-effect falling-film evaporator for skimmed milk production	Journal of Food Process Engineering.  Volume:46, Issue: 8, Pages: e14364, Publisher: John Wiley & Sons, Inc.	August 2023
<b>2022-2023</b>				
1.	Nivedita Wagh, <b>S.D. Agashe</b>	Monitoring exhaust air temperature and detecting faults during milk spray drying using data-driven framework	Drying Technology.  Pages: 1-21, Publisher: Taylor & Francis	May 2023
2.	Sanjay R Patil, <b>Sudhir D. Agashe</b>	Auto tuned PID and neural network predictive controller for a flow loop pilot plant	Materials Today: Proceedings.  Volume: 72, Pages: 754-760, Publisher: Elsevier	January 2023
<b>2019-2020</b>				
1.	Imran Siddiqui, Deepak Ingole, Dayaram Sonawane, <b>Sudhir Agashe</b>	Offset-free Nonlinear Model Predictive Control of A Drum-boiler Pilot Plant	IFAC-PapersOnLine.  Volume: 53, Issue: 1, Pages: 506-511, Publisher: Elsevier	January 2020
2.	Pritesh Shah, <b>Sudhir Agashe</b> , Vyawahare Vyawahare	System identification with fractional-order models: A comparative study with different model structures	Progress in Fractional Differentiation and Applications.  Volume: 4, Issue: 4, Pages: 533-552	2019
3.	Pritesh Shah, Ravi Sekhar, <b>Sudhir Agashe</b>	Application of fractional PID controller to single and multi-variable non-minimum phase systems	International Journal of Recent Technology and Engineering.  Volume: 8, Issue: 2, Pages: 2801-2811	2019

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<b>2022-2023</b>				
1.	Meera A Khandekar, Ravindra Tamhankar, <b>Sudhir Agashe</b> , Nitin Thakur	Experimentation to Test Buckling of Hydraulic Cylinder	2023 IEEE IAS Global Conference on Emerging Technologies (GlobConET).  Pages: 1-5, Publisher: IEEE	May 2023
2.	MA Khandekar, <b>S. D. Agashe</b>	Experimentation for Fault Detection of Process Loop Components	2023 IEEE IAS Global Conference on Emerging Technologies (GlobConET).  Pages: 1-6, Publisher: IEEE	May 2023
3.	Meera A Khandekar, Sudhir Muthyala, <b>Sudhir Agashe</b> , Priyanka Walunj	Development of an Intelligent Sun Tracking System for Solar PV Panel	2023 IEEE IAS Global Conference on Emerging Technologies (GlobConET).  Pages: 1-5, Publisher: IEEE	May 2023
4.	Meera Khandekar, <b>Sudhir D. Agashe</b> , Raunak Pawar	Solid Waste Management Using Machine Learning Algorithm for Smart Cities	Proceedings of 3rd International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications: ICMISC 2022.  Pages: 591-597, Publisher: Springer Nature Singapore	February 2023
5.	Raunak Pawar, MA Khandekar, <b>S. D. Agashe</b> , Pratap Makwana	Prediction of FBC Boiler Efficiency using Machine Learning Algorithm	2022 IEEE International Power and Renewable Energy Conference (IPRECON).  Pages: 1-5, Publisher: IEEE	December 2022
6.	Meera A Khandekar, <b>Sudhir Agashe</b> , Raunak Pawar	Development of Operation Technology Network for Process Flow Control Loop Components	2022 4th International Conference on Electrical, Control and Instrumentation Engineering (ICECIE).  Pages: 1-6, Publisher: IEEE	November 2022
7.	M. A. Khandekar, <b>S. D. Agashe</b>	Performance Monitoring of I to P converter using Data-Driven Model	2022 4th International Conference on Electrical, Control and Instrumentation Engineering (ICECIE).  Pages: 1-7, Publisher: IEEE	November 2022
8.	Ashutoshkumar A Yadav, Yuga Balasaheb Kadam,	Operator Motion Comparison with Standard	2022 International Conference on Signal and Information Processing (IconSIP).	August 2022

	<b>Sudhir D. Agashe,</b> Mukul S Sutaone	using Computer Vision and Deep Learning	Pages: 1-5, Publisher: IEEE	
<b>2021-2022</b>				
1.	Nivedita Wagh, <b>S. D. Agashe</b>	Data-driven frameworks for system identification of a steam generator	Data Management, Analytics and Innovation: Proceedings of ICDMAI 2021, Volume 2.  Pages: 441-452, Publisher: Springer Singapore	2022
2.	Swapnil J Kale, Meera A Khandekar, <b>S. D. Agashe</b>	Prediction of water filter bed backwash time for water treatment plant using machine learning algorithm	2021 IEEE 6th International Conference on Computing, Communication and Automation (ICCCA).  Pages: 113-116, Publisher: IEEE	December 2021
3.	Nikhil Khandu Patil, <b>S. D. Agashe,</b> M. A. Khandekar	Design and Simulation of a Variable Frequency and Power Function Generator For Air Column Modulation	2021 4th International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE).  Pages: 217-220, Publisher: IEEE	October 2021
<b>2018-2019</b>				
1.	Chandrashekhar Murkute, <b>S. D. Agashe</b>	Development of Comprehensive Decision Support System for the Binary Batch Distillation Column Pilot Plant using PHYTHON	2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI).  Pages: 613-617, Publisher: IEEE	April 2019
2.	Imran Siddiqui, Deepak Ingole, <b>Sudhir Agashe,</b> Dayaram Sonawane	Hands-on experience with implementation of classical control for process plant	2018 Fourth International Conference on Computing Communication Control and Automation (ICCUBEA).  Pages: 1-6, Publisher: IEEE	August 2018

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<b>2022-2023</b>				
1.	MG Ghogare, <b>SL Patil</b> , CY Patil, LR Chaudhari	Experimental Application of Global Fast Terminal Sliding Mode Controller to TITO System	ECTI Transactions on Electrical Engineering, Electronics, and Communications.  Volume: 21, Issue: 2, Pages: 249727-249727	June 2023
2.	Praveen V Pol, <b>Sanjaykumar L Patil</b>	A High Efficiency Modified Forward Converter for Solar Photovoltaic Applications	Electric Power Components and Systems.  Volume: 51, Issue: 6, Pages: 525-537, Publisher: Taylor & Francis	May 2023
3.	Sangmesh V Malge, Mukesh G Ghogare, <b>Sanjaykumar L Patil</b> , Amruta S Deshpande, Sanjeev K Pandey	Chatter-Free Non-Singular Fast Terminal Sliding Mode Control of Interleaved Boost Converter	IEEE Transactions on Circuits and Systems II: Express Briefs.  Volume: 70, Issue: 1, Pages: 186-190, Publisher: IEEE	August 2022
4.	Mukesh G Ghogare, <b>SanjayKumar L Patil</b> , ChetanKumar Y Patil	Experimental validation of optimized fast terminal sliding mode control for level system	ISA transactions.  Volume: 126, Pages: 486-497, Publisher: Elsevier	July 2022
<b>2021-2022</b>				
1.	Mukesh G Ghogare, AR Laware, <b>SL Patil</b> , CY Patil	Design and Analysis of Decentralized Dynamic Sliding Mode Controller for TITO Process.	International Journal of Robotics & Control Systems.  Volume: 2, Issue: 2	April 2022
2.	Satyajit H Chincholkar, Sangmesh V Malge, <b>Sanjaykumar L Patil</b>	Design and analysis of a voltage-mode non-linear control of a non-minimum-phase positive output elementary Luo converter	Electronics.  Volume: 11, Issue: 2, Pages: 207, Publisher: MDPI	January 2022
<b>2020-2021</b>				
1.	Sanjeev Kumar Pandey, <b>SL Patil</b> , Praveen V Pol, SB Phadke	A new controller for boost dc-dc converters based on a novel sliding surface	International Journal of Electronics.  Volume: 107, Issue: 10, Pages: 1682-1703, Publisher: Taylor & Francis	October 2020
2.	Parag S Chaudhari, <b>Sanjaykumar L Patil</b>	Minimization of Harmonics in BLDC Motor Drive Using Fuzzy Logic Based Variable Inductor Filter Drive	Australian Journal of Electrical and Electronics Engineering.  Volume: 17, Issue: 4, Pages: 247-262, Publisher: Taylor & Francis	October 2020

3.	Amruta S Deshpande, <b>SL Patil</b>	Robust observer-based sliding mode control for maximum power point tracking	Journal of Control, Automation and Electrical Systems.  Volume: 31, Pages: 1210-1220, Publisher: Springer US	October 2020
4.	Praveen V Pol, <b>Sanjaykumar L Patil</b>	An ultrafast overcurrent protection scheme for power MOSFETs switches	International Journal of Electronics Letters.  Volume: 8, Issue: 3, Pages: 256-268, Publisher: Taylor & Francis	July 2020
<b>2019-2020</b>				
1.	Amruta Sachin Deshpande, <b>Sanjaykumar L Patil</b> , Sanjeev Kumar Pandey	Maximum power point tracking using disturbance observer-based sliding mode control for estimation of solar array voltage	Electric Power Components and Systems.  Volume: 48, Issue: 1-2, Pages: 148-161, Publisher: Taylor & Francis	January 2020
2.	Sanjeev Kumar Pandey, Kuruva Veeranna, <b>SL Patil</b> , SB Phadke	Uncertainty Estimator based Sliding Mode Control Schemes for Multimode Noninverting Buck-Boost DC-DC Converter	IFAC-PapersOnLine.  Volume: 53, Issue: 1, Pages: 55-560, Publisher: Elsevier	January 2020
3.	Praveen V Pol, <b>Sanjaykumar L Patil</b> , Sanjeev Kumar Pandey	A simple and versatile overcurrent protection circuit for power MOSFETs	International Journal of Electronics.  Volume: 106, Issue: 12, Pages: 1864-1884, Publisher: Taylor & Francis	December 2019
<b>2018-2019</b>				
1.	Sanjeev Kumar Pandey, <b>Sanjaykumar L Patil</b> , Divyesh Ginoya, Uttam M Chaskar, Shrivijay B Phadke	Robust control of mismatched buck DC-DC converters by PWM-based sliding mode control schemes	Control Engineering Practice.  Volume: 84, Pages: 183-193, Publisher: Pergamon	March 2019
2.	Sanjeev Kumar Pandey, <b>Sanjaykumar Limaji Patil</b> , Uttam M Chaskar, SB Phadke	State and disturbance observer-based integral sliding mode controlled boost DC-DC converters	IEEE Transactions on Circuits and Systems II: Express Briefs.  Volume: 66, Issue: 9, Pages: 1567-1571, Publisher: IEEE	December 2018
3.	Parag Suresh Chaudhari, <b>Sanjaykumar L Patil</b>	Reduction in harmonics of BLDC motor drive using controlled LC filter	Electric Power Components and Systems.  Volume: 46, Issue: 14-15, Pages: 1686-1703, Publisher: Taylor & Francis	September 2018

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<b>2022-2023</b>				
1.	Prashant K Aher, <b>Sanjaykumar L Patil</b> , Ameya Gambhir, Abhishek Mandhana, Amruta Deshpande, Sanjeev Kumar Pandey	Lithium-Ion Battery Pack SOC Estimation using Optimized ECM Parameters and Kalman Filter	2023 International Conference on Power Electronics and Energy (ICPEE).  Pages: 1-6, Publisher: IEEE	January 2023
2.	Shreya Maggo, Sameer Hussain, Amruta Deshpande, <b>SL Patil</b>	Comparative Study of PID and FOPID Control Techniques for a Quadcopter	2022 3rd International Conference on Electrical Engineering and Informatics (ICon EEI).  Pages: 59-63, Publisher: IEEE	October 2022
3.	Sangmesh V Malge, <b>Sanjaykumar L Patil</b> , Amruta S Deshpande, Rajaram T Ugale	State and Disturbance Observer based Current Sensor-less Control of Mismatched Buck Converter	IECON 2022–48th Annual Conference of the IEEE Industrial Electronics Society.  Pages: 1-6, Publisher: IEEE	October 2022
4.	Akanksha Santosh Kumar, Prashant K Aher, <b>Sanjaykumar L Patil</b>	SOC Estimation using Coulomb Counting and Fuzzy Logic in Lithium Battery	2022 International Conference on Industry 4.0 Technology (I4Tech).  Pages: 1-5, Publisher: IEEE	September 2022
5.	Sudarshan G Kanse, Sangmesh V Malge, Ajay A Rathod, <b>Sanjaykumar L Patil</b>	Mathematical Modeling and Regulation of the High Step-up DC-DC Boost converter	2022 2nd Asian Conference on Innovation in Technology (ASIANCON).  Pages: 1-6, Publisher: IEEE	August 2022
6.	Ajay A Rathod, Sangmesh V Malge, Sudarshan G Kanse, Sanjay S Damhare, <b>Sanjaykumar L Patil</b>	Mathematical Modelling and Controller Design for Single Switch Two-Stage Cascade DC-DC Boost Converter	2022 2nd Asian Conference on Innovation in Technology (ASIANCON).  Pages: 1-6, Publisher: IEEE	August 2022
<b>2021-2022</b>				
1.	Sangmesh V Malge, <b>Sanjaykumar L Patil</b> , Amruta S Deshpande, Prashant K Aher	Mismatched Disturbance Estimation Based Sliding Mode Control of DC-DC Power Converter	2022 2nd International Conference on Intelligent Technologies (CONIT).  Pages: 1-6, Publisher: IEEE	June 2022
2.	Shubham Bidkar, <b>SL Patil</b> , Pravin Shinde	Virtual ECU Development for Vehicle Diagnostics Software Testing using UDS Protocol	2021 Asian Conference on Innovation in Technology (ASIANCON).	August 2021

			Pages: 1-6, Publisher: IEEE	
3.	Shikhar Shukla, <b>SL Patil</b>	Design and comparative study of Adaptive Current Mode of Control for a DC-DC converter using Simulink	2021 Asian Conference on Innovation in Technology (ASIANCON). Pages: 1-6, Publisher: IEEE	August 2021
<b>2020-2021</b>				
1.	Rajatkumar Wani, <b>SL Patil</b> , Pravin Shinde	Modeling and Simulation of Average Current-Mode Controlled Bidirectional Multiphase DC-DC Converters used in Hybrid Vehicles	2021 6th International Conference for Convergence in Technology (I2CT). Pages: 1-7, Publisher: IEEE	April 2021
2.	Sarika Gharpure, KA Ghodinde, Amruta Deshpande, <b>SL Patil</b>	MPPT for Thermoelectric Generator Using Modified Perturbation and Observation Method	Advances in Electrical and Computer Technologies: Select Proceedings of ICAECT 2020. Pages: 1293-1304, Publisher: Springer Singapore	2021
3.	MG Ghogare, <b>SL Patil</b> , CY Patil, BB Musmade	Sliding Mode Control Design for Higher-Order Uncertain System	Advances in Automation, Signal Processing, Instrumentation, and Control: Select Proceedings of i-CASIC 2020. Pages: 505-520, Publisher: Springer Singapore	2021
4.	Sanjeev Kumar Pandey, Bijender Kumar, Parag S Chaudhari, <b>SL Patil</b> , SB Phadke	An Improved Integral Sliding Mode Control for Mismatched Buck DC-DC Converters	IECON 2020 The 46th Annual Conference of the IEEE Industrial Electronics Society. Pages: 106-111, Publisher: IEEE	October 2020
<b>2019-2020</b>				
1.	MG Ghogare, BB Musmade, <b>SL Patil</b> , BM Patre	Robust regulation of time-delay processes using sliding mode control	2020 SICE International Symposium on Control Systems (SICE ISCS). Pages: 55-60, Publisher: IEEE	March 2020
2.	Amruta S Deshpande, <b>Sanjaykumar L Patil</b>	Maximum power point tracking using a hybrid fuzzy logic control	Advances in Data and Information Sciences: Proceedings of ICDIS 2019. Pages: 217-226, Publisher: Springer Singapore	2020
<b>2018-2019</b>				
1.	Prashant Wagh, <b>SL Patil</b>	Transmission of biomedical signal using VLC based system in hospitals	2019 3rd International Conference on Trends in	April 2019

			Electronics and Informatics (ICOEI). Pages: 110-112, Publisher: IEEE	
2.	Krushna D Patel, <b>SL Patil</b>	Non-linear tank level control using fractional PI	2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI). Pages: 113-116, Publisher: IEEE	April 2019
3.	Sanjeev Kumar Pandey, <b>Sanjaykumar Limaji Patil</b> , Uttam M Chaskar, Shrivijay B Phadke	Direct duty ratio control of buck DC-DC converters using disturbance observer based integral sliding mode control	IECON 2018-44th Annual Conference of the IEEE Industrial Electronics Society. Pages: 5507-5512, Publisher: IEEE	October 2018



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<b>Sr. No.</b>	<b>Authors</b>	<b>Title of the Publication</b>	<b>Name of the Book</b>	<b>Year</b>
<b>2022-2023</b>				
1.	Yashwant Adhav, Dayaram Sonawane, <b>Chetankumar Patil</b>	Design and Simulation of Capacitive Pressure Sensor for Monitoring Lead-Acid Battery Charge	Smart Sensors Measurement and Instrumentation: Select Proceedings of CISCON 2021.  Pages: 287-302, Publisher: Springer Nature Singapore	March 2023

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<b>2022-2023</b>				
1.	Yashwant Adhav, Dayaram Sonawane, <b>Chetankumar Patil</b>	Novel Micro flow Sensor for Air Purge Method to Monitor the State of Charge of Lead Acid Battery	Journal of Physics: Conference Series.  Volume: 2327, Issue: 1, Pages: 012004, Publisher: IOP Publishing	August 2022
<b>2021-22</b>				
1.	Shashikant Rathod, Leena Phadke, Uttam Chaskar, <b>Chetankumar Patil</b>	Heart Rate Variability measured during rest and after orthostatic challenge to detect autonomic dysfunction in Type 2 Diabetes Mellitus using the Classification and Regression ...	Technology and Health Care.  Volume: 30, Issue: 2, Pages: 361-378, Publisher: IOS Press	January 2022
2.	Sunmeet Sandhu, Anuj Bhatnagar, Harish Kumar, Prashant Kumar Dixit, Gourang Paliwal, Devinder Kumar Suhag, <b>Chetan Patil</b> , Debdeep Mitra	Leukocytoclastic vasculitis as a cutaneous manifestation of ChAdOx1 nCoV-19 corona virus vaccine (recombinant)	Dermatologic Therapy.  Volume: 34, Issue: 6, Pages: e15141, Publisher: John Wiley & Sons, Inc.	November 2021
3.	Anuj Bhatnagar, Gautam Kumar Singh, Sanjeev Kumar Deshpande, Barnali Mitra, Debdeep Mitra, Vivek Agrawal, Suresh Reddy, <b>Chetan Patil</b> , Sunmeet Sandhu	Use of secukinumab in erythrodermic psoriasis: A single center experience	Medical Journal Armed Forces India.  Publisher: Elsevier	October 2021
4.	R Shashikant, Uttam Chaskar, Leena Phadke, <b>Chetankumar Patil</b>	Gaussian process-based kernel as a diagnostic model for prediction of type 2 diabetes mellitus risk using non-linear heart rate variability features	Biomedical Engineering Letters.  Volume: 11, Issue: 3, Pages: 273-286, Publisher: The Korean Society of Medical and Biological Engineering	August 2021
5.	Gautam Kumar Singh, Barnali Mitra, Anuj Bhatnagar, Debdeep Mitra, Krishna Talukdar, Pankaj Das, <b>Chetan Patil</b> , Sunmeet Sandhu, Anwita Sinha, Teghveer Singh	Unusual spurts of rosacea like dermatoses, posing a diagnostic dilemma during covid-19 pandemic: a cross-sectional, observational study from a tertiary care centre	Indian Journal of Dermatology.  Volume: 66, Issue: 4, Pages: 401, Publisher: Wolters Kluwer--Medknow Publications	July 2021
<b>2020-2021</b>				

1.	Pallavi Mandhare, Jyoti Yadav, Vilas Kharat, <b>CY Patil</b>	Control and Coordination of Self-Adaptive Traffic Signal Using Deep Reinforcement Learning.	International Journal of Next-Generation Computing. Volume: 12, Issue: 2	April 2021
2.	Aniket Deshpande, Subhash Deshpande, <b>Chetan Patil</b>	Comparison of RC Bridges using Pushover Analysis	International Research Journal of Engineering and Technology (IRJET). Volume: 08 Issue: 01	2021
3.	Shashikant Rajaram Rathod, Uttam Chaskar, Leena Phadke, <b>Chetan Kumar Patil</b>	Implementation of machine learning model-based decision support system for healthcare professionals to predict T2DM risk using heart rate variability features	NIScPR Online Periodicals Repository. Pages: 240-249, Volume: 28(3), Publisher: NIScPR-CSIR, India	2021
4.	SR Rathod, <b>CY Patil</b>	Performance assessment of ensemble learning model for prediction of cardiac disease among smokers based on HRV features	International Journal of Biomedical and Clinical Engineering (IJBC). Volume: 10, Issue: 1, Pages: 19-34, Publisher: IGI Global	January 2021
5.	Amita Shinde, Amol Rahulkar, <b>Chetankumar Patil</b>	New flexible directional filter bank by tuning Hermite transform parameters for content based medical image retrieval	IET Image Processing. Volume: 14, Issue: 11, Pages: 2403-2416, Publisher: The Institution of Engineering and Technology	September 2020
<b>2019-2020</b>				
1.	SR Rathod, <b>CY Patil</b>	Linear and non-linear HRV features for the prediction of heart disease among smokers: a predictive evaluation of machine learning model	Int J Comput Inform Syst Ind Manag Appl. Volume: 12, Pages: 222-230	2020
2.	Amita Shinde, Amol Rahulkar, <b>Chetankumar Patil</b>	Biomedical image indexing and retrieval based on new efficient hybrid approach using directional decomposition and a novel local directional frequency encoded pattern: a post ...	Multimedia Tools and Applications. Volume: 78, Pages: 23489-23519, Publisher: Springer US	August 2019
3.	Amita Shinde, Amol Rahulkar, <b>Chetankumar Patil</b>	Content based medical image retrieval based on new efficient local neighborhood wavelet feature descriptor	Biomedical engineering letters. Volume: 9, Pages: 387-394, Publisher: The Korean Society of Medical and Biological Engineering	August 2019
<b>2018-2019</b>				

1.	Chinmay Marade, Aalekh Pradeep, Dipak Mohanty, <b>Chetan Patil</b>	Forecasting Blood Donor Response Using Predictive Modelling Approach	International Journal of Computer Science and Mobile Computing  Volume: 8, Issue: 4, Pages: 73-77	April- 2019
2.	CB Kadu, AA Khandekar, <b>CY Patil</b>	Design of sliding mode controller with proportional integral sliding surface for robust regulation and tracking of process control systems	Journal of Dynamic Systems, Measurement, and Control.  Volume: 140, Issue: 9, Pages: 091004, Publisher: American Society of Mechanical Engineers	September 2018
3.	Pallavi A Mandhare, Vilas Kharat, <b>CY Patil</b>	Intelligent road traffic control system for traffic congestion: a perspective	International Journal of Computer Sciences and Engineering.  Volume: 6, Issue: 07, Pages: 218	July 2018

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<b>2022-2023</b>				
1.	Rajesh S Pashikanti, <b>CY Patil</b> , Amita Anirudhe Shinde	Cardiac Arrhythmia Classification using Deep Convolutional Neural Network and Fuzzy Inference System	2022 International Conference on Artificial Intelligence of Things (ICAIoT).  Pages: 1-6, Publisher: IEEE	December 2022
2.	Vinita Yerande, Kalyani Bhole, DN Sonawane, <b>CY Patil</b>	A Hybrid Technique for Non-Invasive Fetal ECG Extraction and Heart Rate Estimation From the Mother's Abdomen Signal	2022 International Conference on Artificial Intelligence of Things (ICAIoT).  Pages: 1-6, Publisher: IEEE	December 2022
3.	Rajesh S Pashikanti, Amita Anirudhe Shinde, <b>CY Patil</b>	Adaptive Predictive Control-Based Noise Cancellation With Deep Learning for Arrhythmia Classification from ECG Signals	2022 International Conference on Intelligent Innovations in Engineering and Technology (ICIET).  Pages: 25-32, Publisher: IEEE	September 2022
<b>2021-2022</b>				
1.	Mukesh Ghogare, Sanjay Patil, <b>Chetankumar Patil</b> , Ajit Laware, Lalit Chaudhari	Design and experimental validation of non-singular terminal sliding mode control for level control system	2021 IEEE 18th India Council International Conference (INDICON).  Pages: 1-6, Publisher: IEEE	December 2021
2.	SR Rathod, Leena Phadke, Uttam M Chaskar, <b>CY Patil</b>	Machine Learning Techniques for Predicting Type 2 Diabetes Mellitus Risk using Heart Rate Variability Features	2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT).  Pages: 1-6, Publisher: IEEE	July 2021
<b>2020-2021</b>				
1.	SR Rathod, UM Chaskar, <b>CY Patil</b>	Machine Learning Approach to Study the Impact of Obesity on Autonomic Nervous System using Heart Rate Variability Features	2021 Seventh International conference on Bio Signals, Images, and Instrumentation (ICBSII).  Pages: 1-4, Publisher: IEEE	March 2021
2.	SR Rathod, UM Chaskar, <b>CY Patil</b>	Statistical and Machine Learning Approach to Study the Smoking Impact on Heart Rate Variability Features	2021 International Conference on Emerging Smart Computing and Informatics (ESCI).	March 2021

			Pages: 170-174, Publisher: IEEE	
3.	SR Rathod, <b>CY Patil</b>	Statistical validity of presmoking and postsmoking impact on heart rate variability among middle age men	Advances in Signal and Data Processing: Select Proceedings of ICSDP 2019. Pages: 271-277, Publisher: Springer Singapore	2021
<b>2020-2021</b>				
1.	Amita A Shinde, Amol D Rahulkar, <b>Chetankumar Y Patil</b>	Directional multiscale feature extraction for biomedical image indexing and retrieval using contourlet transform	Intelligent Systems Design and Applications: 18th International Conference on Intelligent Systems Design and Applications (ISDA 2018). Volume: 1, Pages: 159-169, Publisher: Springer International Publishing	2020
<b>2018-2019</b>				
1.	Akash Dand, <b>Chetankumar Patil</b> , Ashok Deshpande	Can Multi-constraint Fuzzy Optimization <i>Bring</i> Complex Problems in Selecting Optimal Solar Power Generating System <i>into Focus</i> ?	Fuzzy Logic in Intelligent System Design: Theory and Applications. Pages: 3-8, Publisher: Springer International Publishing	2018

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<b>2022-2023</b>				
1.	AA Somani, <b>RD Kokate</b> , Abhilasha Mishra	Performance Monitoring of CNC Machine Using Modelsim.	Journal Européen des Systèmes Automatisés. Volume: 56, Issue: 2	April 2023
2.	A ASomani, <b>R D. Kokate</b> , Abhilasha Mishra, K Santhi Sri, N Veeranjanyulu, Mary George Chinnu, Divya Sharma, Sr Reeja, Maha Jarallah Althobaiti, Oussama Jaider, Nihad Aghbalou, Aswan Supriyadi Sunge, Edi Abdurachman, Yaya Heryadi, Iman H Kartowisatro, Daniel Meiryani, Shi Ming Huang, Asl Lindawati, Dianka Wahyuningtias, Agung Purnomo, Agustinus Winoto, Mochammad Fahlevi, Jay Prakash Singh, Chittaranjan Pradhan, A Shereen, Maha Abdulkarim Alqabli, A Amany, Karam Ignaim, M Sultan, Khalid Alkharabsheh, João M Fernandes, Marcelino Meiryani, Toto Rusmanto, Theresia Lesmana, Mohamad Ikhsan Modjo, Adelia Yulma Budiarto, Laura Lahindah, Ivan Diryana Sudirman	FPGA and Machining Process-A Review On Performance and Applications	Journal of Theoretical and Applied Information Technology. Volume: 101, Issue: 7	April 2023
3.	Abdullah Mohammed Kaleem, <b>Rajendra D Kokate</b>	Retraction Note to: Prediction of pre-term groups from EHG signals using optimal multi-kernel SVM	Journal of Ambient Intelligence and Humanized Computing. Volume: 14, Issue: Suppl 1, Pages: 261-261, Publisher: Springer Berlin Heidelberg	April 2023

4.	Allabakash Isak Tamboli, <b>Rajendra D Kokate</b>	Query based relevant music genre retrieval using adaptive artificial neural network for multimedia applications	Multimedia Tools and Applications. Volume: 81, Issue: 22, Pages: 31603-31629, Publisher: Springer US	September 2022
<b>2021-2022</b>				
1.	Dayanand Bhaurao Jadhav, <b>Rajendra D Kokate</b>	Development of green synthesized nanomaterials for hybrid vehicle applications	International Journal of Intelligent Unmanned Systems. Publisher: Emerald Publishing Limited	November 2021
<b>2020-2021</b>				
1.	Manju D Pawar, <b>Rajendra D Kokate</b>	Convolution neural network based automatic speech emotion recognition using Mel-frequency Cepstrum coefficients	Multimedia Tools and Applications. Volume: 80, Pages: 15563-15587, Publisher: Springer US	April 2021
2.	Abdullah Mohammed Kaleem, <b>Rajendra D Kokate</b>	A survey on FECG extraction using neural network and adaptive filter	Soft Computing. Volume: 25, Pages: 4379-4392, Publisher: Springer Berlin Heidelberg	March 2021
3.	Abdullah Mohammed Kaleem, <b>Rajendra D Kokate</b>	RETRACTED ARTICLE: Prediction of pre-term groups from EHG signals using optimal multi-kernel SVM	Journal of Ambient Intelligence and Humanized Computing. Volume: 12, Issue: 3, Pages: 3689-3703, Publisher: Springer Berlin Heidelberg	March 2021
4.	BA Patil, Jitendra S Kounsalye, Ashok V Humbe, <b>RD Kokate</b>	Structural, magnetic, dielectric and hyperfine interaction studies of titanium (Ti <sup>4+</sup> )-substituted nickel ferrite (Ni <sub>1+x</sub> Ti <sub>x</sub> Fe <sub>2-2x</sub> O <sub>4</sub> ) nanoparticles	Journal of Materials Science: Materials in Electronics. Volume: 32, Pages: 4556-4567, Publisher: Springer US	February 2021
5.	<b>Rajendra D. Kokate</b> , Dayanand B. Jadhav	Development of environment friendly nanoelectronic sensing elements for hybrid electric vehicles	International Journal of Vehicle Information and Communication Systems. Issue: DOI: 10.1504/IJVICS.2021.10041118	2021
6.	Dayanand B Jadhav, <b>Rajendra D Kokate</b>	Green synthesis and characterization of Zinc Oxide using Cicer arietinum leaves for NO <sub>2</sub> gas detection	Materials Today: Proceedings. Volume: 44, Pages: 213-216, Publisher: Elsevier	January 2021
<b>2019-2020</b>				
1.	Dayanand B Jadhav, <b>Rajendra D Kokate</b>	Green synthesis of SnO <sub>2</sub> using green papaya leaves for	Materials Today: Proceedings.	January 2020



		nanoelectronics (LPG sensing) application	Volume: 26, Pages: 998-1004, Publisher: Elsevier	
2.	Vaibhav V Kamble, <b>Rajendra D Kokate</b>	Automated diabetic retinopathy detection using radial basis function	Procedia Computer Science. Volume: 167, Pages: 799-808, Publisher: Elsevier	January 2020
3.	Abdullah Mohammed Kaleem, <b>Rajendra D Kokate</b>	An efficient adaptive filter for fetal ECG extraction using neural network	Journal of Intelligent Systems. Volume: 28, Issue: 4, Pages: 589-600, Publisher: De Gruyter	September 2019
<b>2018-2019</b>				
1.	Dayanand B Jadhav, <b>Dr RD Kokate</b>	Characterization of TiO <sub>2</sub> Metal Oxides Nanoparticle Synthesized using Plant Extracts and Fabrication of 'Solar Cell' using ITO Glass, TiO <sub>2</sub> , Ruthenium, Graphite and Potassium Iodide	Advances in Power Generation from Renewable Energy Sources (APGRES)	February 2019
2.	Allabakash Isak Tamboli, <b>Rajendra D Kokate</b>	An effective optimization-based neural network for musical note recognition	Journal of Intelligent Systems. Volume: 28, Issue: 1, Pages: 173-183, Publisher: De Gruyter	January 2019

### Prof. R. D. Kokate

Sr. No.	Authors	Title of the Publication	Name of the International Conference	Year
<b>2021-2022</b>				
1.	Manju Dhanraj Pawar, <b>Dr RD Kokate</b> , VR Gosavi	An optimize multimodal biometric authentication system for low classification error rates using face and fingerprint	Proceedings of the International Conference on IoT Based Control Networks & Intelligent Systems- ICICNIS	October 2021
<b>2019-2020</b>				
1.	Abdullah Mohammed Kaleem, <b>Rajendra D Kokate</b>	Performance evaluation of fetal ECG extraction algorithms	Emerging Research in Electronics, Computer Science and Technology:	2019

			Proceedings of International Conference, ICERECT 2018. Pages: 187-194, Publisher: Springer Singapore	
2.	MD Pawar, <b>Rajendra Kokate</b>	A robust wavelet based decomposition and multilayer neural network for speaker identification	Innovations in Electronics and Communication Engineering: Proceedings of the 7th ICIECE 2018. Pages: 197-209, Publisher: Springer Singapore	2019
3.	Vaibhav V Kamble, <b>Rajendra D Kokate</b>	Automatic identification and classification of microaneurysms, exudates and blood vessel for early diabetic retinopathy recognition	Computational Intelligence in Data Mining: Proceedings of the International Conference on CIDM 2017. Pages: 423-434, Publisher: Springer Singapore	2019
<b>2018-2019</b>				
1.	Akanksha Somani, <b>Rajendra Kokate</b>	Realization of FPGA Based PID Controller for Speed Control of DC Motor Using Xilinx SysGen	Information and Communication Technology for Intelligent Systems (ICTIS 2017)-Volume 2 2. Pages: 85-91, Publisher: Springer International Publishing	2018

### Prof. P. D. Shendge

Sr. No.	Authors	Title of the Publication	Name of the International Journal	Year
<b>2022-2023</b>				
1.	SC Rajgade, <b>PD Shendge</b> , PS Londhe	Feedback linearization-based robust control for flexible joint robotic system using proportional integral observer	International Journal of Dynamics and Control Volume:11, Issue:1, Pages: 396-410, Publisher: Springer Berlin Heidelberg	February 2023
<b>2020-2021</b>				
1.	Sushant Chaudhari, <b>Pramod D Shendge</b> , Shrivijay B Phadke	Dynamic nonlinear gradient observer-based extremum seeking control for optimum braking	IEEE Transactions on Industrial Electronics	March 2021

			Volume: 69, Issue: 3, Pages: 2833-2842, Publisher: IEEE	
2.	Sushant Chaudhari, <b>Pramod D Shendge</b> , Shrivijay B Phadke	Comment on ‘Comments on “A new kind of nonlinear disturbance observer for nonlinear systems with applications to cruise control of air-breathing hypersonic vehicles”’	International Journal of Control.  Volume: 93, Issue: 10, Pages: 2416-2417, Publisher: Taylor & Francis	October 2020
3.	Vijayraj Wanaskar, Sushant Chaudhari, <b>Pramod D Shendge</b> , Shrivijay B Phadke	Extended nonlinear two-time scale estimation approach for antilock braking systems	IEEE Transactions on Industrial Electronics.  Volume: 68, Issue: 10, Pages: 10040-10049, Publisher: IEEE	September 2020
<b>2019-2020</b>				
1.	Sushant Chaudhari, <b>Pramod D Shendge</b> , Shrivijay B Phadke	Disturbance observer-based controller under noisy measurement for tracking of nDOF uncertain mismatched nonlinear interconnected systems	IEEE/ASME Transactions on Mechatronics.  Volume: 25, Issue:3, Pages: 1600-1611, Publisher: IEEE	March 2020
2.	Shrivijay B Phadke, <b>PD Shendge</b> , Vijayraj Suryakant Wanaskar	Control of antilock braking systems using disturbance observer with a novel nonlinear sliding surface	IEEE Transactions on Industrial Electronics  Volume: 67, Issue: 8, Pages: 6815-6823, Publisher: IEEE	September 2019
<b>2018-2019</b>				
1.	Utkarsh S Pusadkar, Sushant D Chaudhari, <b>PD Shendge</b> , SB Phadke	Linear disturbance observer based sliding mode control for active suspension systems with non-ideal actuator	Journal of Sound and Vibration  Volume:442, Pages: 428-444, Publisher: Elsevier.	March 2019

### **Prof. P. D. Shendge**

<b>Sr. No.</b>	<b>Authors</b>	<b>Title of the Publication</b>	<b>Name of the International Conference</b>	<b>Year</b>
<b>2021-2022</b>				
1.	Santosh C Rajgade, <b>Pramod D Shendge</b> , Mukesh G Ghogare	Robust Controller Design Based on Equivalent Input Disturbance for Magnetic Levitation System	2022 IEEE 7th International conference for Convergence in Technology (I2CT).  Pages: 1-6, Publisher: IEEE	April 2022
2.	Sudam D Adlinge, <b>Pramod D Shendge</b>	Control of Unmanned Sea Surface Vehicle Using Sliding Mode Controller with Time Delay Control	2022 IEEE 7th International conference for Convergence in Technology (I2CT).	April 2022

			Pages: 1-9, Publisher: IEEE	
3.	Santosh C Rajgade, <b>Pramod D Shendge</b>	Equivalent Input Disturbance Based Robust Control For Robot Manipulator Using Generalised Extended State Observer	2022 International Conference on Emerging Smart Computing and Informatics (ESCI).  Pages: 01-07, Publisher: IEEE	March 2022
4.	Sayali S Patil, <b>PD Shendge</b> , SB Phadke	Sliding Mode Based Coordinated Active Suspension and ABS Control for Improved Vehicle Safety	2022 International Conference for Advancement in Technology (ICONAT).  Pages: 1-7, Publisher: IEEE	January 2022
5.	Sudam D Adlinge, <b>Pramod D Shendge</b> , Sivayazi Kappagantula	Control of Unmanned Sea Surface Vehicle Using Sliding Mode Controller with Saturation function for Defence Application	2022 International Conference for Advancement in Technology (ICONAT).  Pages: 1-6, Publisher: IEEE	January 2022
6.	Harshad Mane, Vijayraj Wanaskar, Sushant Chaudhari, <b>PD Shendge</b> , SB Phadke	Novel two-time scale observer based sliding mode control with velocity estimator for magnetic levitation	2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON).  Pages: 1-6, Publisher: IEEE	October 2021
<b>2020-2021</b>				
1.	Vijayraj Wanaskar, <b>PD Shendge</b> , SB Phadke	State and Disturbance Estimation Based Sliding Mode Control for Antilock Braking Systems	2021 6th International Conference for Convergence in Technology (I2CT).  Pages: 1-6, Publisher: IEEE	April 2021
2.	Sushant D Chaudhari, <b>PD Shendge</b> , SB Phadke	State and Disturbance Observer based Sliding Mode Control for Nonlinear Uncertain Mismatched Systems	2021 6th International Conference for Convergence in Technology (I2CT).  Pages: 1-5, Publisher: IEEE	April 2021
3.	Sayali S Patil, Vijayraj Wanaskar, <b>PD Shendge</b> , SB Phadke	Sliding Mode and Inertial Delay Based Direct Yaw Moment Control for AGVs	2021 6th International Conference for Convergence in Technology (I2CT).  Pages: 1-6, Publisher: IEEE	April 2021
<b>2019-2020</b>				
1.	Tushar Khanke, Sushant Chaudhari, Shrivijay Phadke, <b>Pramod Shendge</b>	Yaw stability of 4WS with variable steering ratio strategy using inertial delay control based sliding mode control	2019 International Conference on Communication and Electronics Systems (ICCES).  Pages: 521-526, Publisher: IEEE	July 2019

<b>2018-2019</b>				
1.	Sushant Chaudhari, <b>Pramod Shendge</b> , Shrivijay Phadke	Disturbance observer-based model following controller for four-wheel steering vehicles	2019 Second International Conference on Advanced Computational and Communication Paradigms (ICACCP).  Pages: 1-6, Publisher: IEEE	February 2019
2.	Vijayraj Wanaskar, <b>Pramod Shendge</b> , Shrivijay Phadke	A disturbance observer based sliding mode control for anti-lock braking system	2019 Second International Conference on Advanced Computational and Communication Paradigms (ICACCP).  Pages: 1-6, Publisher: IEEE	February 2019

**Prof. D. N. Sonawane**

<b>Sr. No.</b>	<b>Inventors</b>	<b>Title</b>	<b>Patent Details</b>	<b>Year</b>
<b>2020-2021</b>				
1.	<b>Dayaram Sonawane</b> , Manan Pathak, Venkat Subramanian, Matthew Lawder	Battery models, systems, and methods using robust fail-safe iteration free approach for solving differential algebraic equations	Patent office: US, Patent number: 10769236, Application number: 15745984	September 2020

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<b>Sr. No.</b>	<b>Authors</b>	<b>Title of the Publication</b>	<b>Name of the International Journal</b>	<b>Year</b>
<b>2022-2023</b>				
1.	Pramod Ubare, Vaishali Patne, <b>Dayaram Sonawane</b>	Enhancing performance of permanent magnet motor for electric vehicle drives using model predictive control	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering.	May 2023

			Pages: 09544070231169802, Publisher: SAGE Publications	
2.	Pramod Ubare, <b>DN Sonawane</b>	Performance Assessment of the BLDC Motor in EV Drives using Nonlinear Model Predictive Control	Engineering, Technology & Applied Science Research.  Volume: 12, Issue: 4, Pages: 8901-8909, Publisher: ETASR	August 2022
<b>2021-2022</b>				
1.	Chaitanya Jugade, Deepak Ingole, <b>Dayaram N Sonawane</b> , Michal Kvasnica, John Gustafson	A memory efficient fpga implementation of offset-free explicit model predictive controller	IEEE Transactions on Control Systems Technology.  Volume: 30, Issue: 6, Pages: 2646-2657, Publisher: IEEE	May 2022
2.	Abhijith Sharma, Chaitanya Jugade, Shreya Yawalkar, Vaishali Patne, Deepak Ingole, <b>Dayaram Sonawane</b>	Embedded Model Predictive Control Using Robust Penalty Method	arXiv preprint arXiv:2201.02697	January 2022
3.	Vaishali Patne, Deepak Ingole, <b>Dayaram Sonawane</b>	Towards Fast Nonlinear Model Predictive Control for Embedded Applications	IFAC-PapersOnLine.  Volume: 55, Issue: 22, Pages: 304-309, Publisher: Elsevier	January 2022
<b>2020-2021</b>				
1.	Saket Adhau, Siddesh Dani, Deepak Ingole, <b>Dayaram Sonawane</b>	Embedded model predictive controller on low-cost low-end microcontroller for electrical drives	arXiv preprint arXiv:2105.08623.	May 2021
2.	Pramod Ubare, Deepak Ingole, <b>DN Sonawane</b>	Nonlinear model predictive control of bldc motor with state estimation	IFAC-PapersOnLine.  Volume: 54, Issue: 6, Pages: 107-112, Publisher: Elsevier	January 2021
<b>2019-2020</b>				
1.	Vaishali Patne, Deepak Ingole, <b>Dayaram Sonawane</b>	FPGA implementation framework for low latency nonlinear model predictive control	IFAC-PapersOnLine.  Volume: 53, Issue: 2, Pages: 7020-7025, Publisher: Elsevier	January 2020
2.	Vaishali Patne, Deepak Ingole, <b>Dayaram Sonawane</b>	FPGA implementation framework for explicit hybrid model predictive control	IFAC-PapersOnLine.  Volume: 53, Issue: 1, Pages: 362-367, Publisher: Elsevier	January 2020

3.	Dipali Dange, Radhika Ballal, Meera Murali, AK, <b>D. N. Sonawane</b> , Prakash	Design and Development of Automotive Battery Management System	Publisher: SAE Technical Paper	November 2019
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<b>Sr. No.</b>	<b>Authors</b>	<b>Title of the Publication</b>	<b>Name of the International Conference</b>	<b>Year</b>
<b>2022-2023</b>				
1.	Nirlipta Ranjan Mohanty, Chaitanya Jugade, Vaishali Patne,	FPGA Implementation of Low Complexity Nonlinear Model Predictive Control Using Deep Learning Approach	2022 Eighth Indian Control Conference (ICC)	December 2022



	Deepak Ingole, <b>Dayaram Sonawane</b>		Pages: 325-330, publisher: IEEE	
2.	<b>Dayaram Sonawane</b> , Sandeep D Hanwate, Pramod Ubare, RN Marathe, G Srinivasa Rao, Manish Sahu	Development of Vehicle Dynamic Plant Model and Embedded Co-Simulation with ARM Platform	2022 IEEE International Conference on Power Electronics, Drives and Energy Systems (PEDES).  Pages: 1-6, Publisher: IEEE	December 2022
3.	Surendra Gayke, Digambar Patil, <b>DN Sonawane</b> , VS Vyas	Low-cost Embedded System Framework for Industrial IoT Solutions	2022 International Conference on Signal and Information Processing (IConSIP).  Pages: 1-6, Publisher: IEEE	August 2022
<b>2021-2022</b>				
1.	Shaunak Ghatpande, Neeraj Garole, Manali Durgule, Nirlipta Mohanty, Deepak Ingole, <b>Dayaram Sonawane</b>	Ultrafast Learning-Based Nonlinear Model Predictive Control and its Embedded Realization	2021 Seventh Indian Control Conference (ICC).  Pages: 248-253, Publisher: IEEE	December 2021
2.	Pranav Shah, Pramod Ubare, Deepak Ingole, <b>Dayaram Sonawane</b>	Performance Improvement of BLDC Motor Speed Control Using Sliding Mode Control and Observer	2021 International Symposium of Asian Control Association on Intelligent Robotics and Industrial Automation (IRIA).  Pages: 247-252, Publisher: IEEE	September 2021
<b>2020-2021</b>				
1.	Nirlipta Ranjan Mohanty, Saket Adhau, Deepak Ingole, <b>Dayaram Sonawane</b>	Hardware Implementation of Low-complexity Deep Learning-based Model Predictive Controller	2021 European Control Conference (ECC).  Pages: 1024-1029, Publisher: Springer Singapore	June 2021
2.	Chaitanya Jugade, Deepak Ingole, <b>Dayaram Sonawane</b> , Michal Kvasnica, John Gustafson	A framework for embedded model predictive control using posits	2020 59th IEEE Conference on Decision and Control (CDC).  Pages: 2509-2514, Publisher: IEEE	December 2020
<b>2019-2020</b>				
1.	Pramod Ubare, Deepak Ingole, <b>Dayaram Sonawane</b>	Energy-efficient nonlinear model predictive control of blcdc motor in electric vehicles	2019 Sixth Indian Control Conference (ICC).  Pages: 194-199, Publisher: IEEE	December 2019
2.	Saket Adhau, Sayli Patil, Deepak Ingole, <b>Dayaram Sonawane</b>	Embedded implementation of deep learning-based linear model predictive control	2019 sixth Indian control conference (ICC).	December 2019

			Pages: 200-205, Publisher: IEEE	
3.	Chaitanya Jugade, Deepak Ingole, <b>Dayaram Sonawane</b> , Michal Kvasnica, John Gustafson	A memory-efficient explicit model predictive control using positis	2019 Sixth Indian Control Conference (ICC).  Pages: 188-193, Publisher: IEEE	December 2019
<b>2018-2019</b>				
1.	Saket Adhau, Sayli Patil, Deepak Ingole, <b>Dayaram Sonawane</b>	Implementation and analysis of nonlinear model predictive controller on embedded systems for real-time applications	2019 18th European Control Conference (ECC).  Pages: 3359-3364, Publisher: IEEE	June 2019
2.	Siddhant Mukherjee, Kalyani Bhole, <b>Dayaram Sonawane</b>	Design and Development of Scalable IoT Framework for Healthcare Application	Proceedings of the International Conference on ISMAC in Computational Vision and Bio- Engineering 2018 (ISMAC- CVB).  Pages: 255-263, Publisher: Springer International Publishing	2019
3.	S Adhau, K Phalke, A Nalawade, D Ingole, <b>D Sonawane</b>	Implementation and Analysis of Offset-Free Explicit Model Predictive Controller on FPGA	5th Indian Control Conference, IIT Delhi.  Publisher: IEEE	2019
4.	Megha Shyam Asekar, <b>DN Sonawane</b>	Development of NIR spectroscopy based non- invasive blood glucose measuring device	2018 4th International Conference for Convergence in Technology (I2CT).  Pages: 1-5, Publisher: IEEE	October 2018

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Sr. No.	Authors	Title of the Publication	Name of the International Journal	Year
<b>2022-2023</b>				

1.	Sachin Dattatraya Shingade, <b>Rohini Prashant Mudhalwadkar</b>	Sensor information-based crop recommendation system using machine learning for the fertile regions of Maharashtra	Concurrency and Computation: Practice and Experience  Pages: e7774, Publisher: John Wiley & Sons, Inc.	May 2023
2.	Sachin Dattatraya Shingade, <b>Rohini Prashant Mudhalwadkar</b>	Hybrid extreme learning machine based bidirectional long short-term memory for crop prediction	Concurrency and Computation: Practice and Experience.  Volume: 35, Issue: 2, Pages: e7482, Publisher: John Wiley & Sons, Inc	January 2023
3.	S Barhate, <b>Rohini Mudhalwadkar</b> , Swati Madhe	Fault Detection Methods Suitable for Automotive Applications in Proton Exchange Fuel Cells	Engineering, Technology & Applied Science Research.  Volume: 12, Issue: 6, Pages: 9607-9613	December 2022
4.	Sachin Dattatraya Shingade, <b>Rohini Mudhalwadkar</b>	Hybrid deep-Q Elman neural network for crop prediction and recommendation based on environmental changes	Concurrency and computation: Practice and experience.  Volume: 34, Issue: 17, Pages: e6991, Publisher: John Wiley & Sons, Inc	August 2022
<b>2020-2021</b>				
1.	Sujit BARHATE, <b>Rohini Mudhalwadkar</b>	Proton exchange membrane fuel cell fault and degradation detection using a coefficient of variance method	Journal of Energy Systems.  Volume: 5, Issue: , Pages: 20-34, Publisher: Erol KURT	March 2021
2.	Sujit Sopan Barhate, <b>Rohini Mudhalwadkar</b>	Proton exchange membrane fuel cell dynamic model based on time series analysis for fault diagnosis	International Journal of Renewable Energy Technology.  Volume: 12, Issue: 4, Pages: 351-379, Publisher: Inderscience Publishers (IEL)	2021
<b>2019-2020</b>				
1.	Pauroosh Kaushal, <b>Rohini Mudhalwadkar</b>	Stationary wavelet singular entropy based electronic tongue for classification of milk	Transactions of the Institute of Measurement and Control.  Volume: 42, Issue: 4, Pages: 870-879, Publisher: SAGE Publications	February 2020
<b>2018-2019</b>				
1.	Nachiket M Wadalkar, Rohini P Mudhalwadkar, Akshay A Sulkekar	Development of electrical impedance sensor system for milk adulteration (A1 and A2)	2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI).	April 2019

			Pages: 107-109, Publisher: IEEE	
2.	Dipali Ramdasi, <b>Rohini Mudhalwadkar</b>	Qualitative Detection of Nitro-Aromatic Explosives using Supervised Learning Access	International Journal of Innovative Technology and Exploring Engineering.  Volume: 8, Issue: 9-2, Pages: 62-67	2019
3.	Dipali Ramdasi, <b>Rohini Mudhalwadkar</b>	Detection of Nitrobenzene using a coated Quartz Crystal Microbalance with a Parametric Modelling Approach	Pertanika J. Sci. Technol.  Volume: 27, Issue: 4, Pages: 2049-2064	2019

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Sr. No.	Authors	Title of the Publication	Name of the International Conference	Year
<b>2022-2023</b>				

1.	Sachin D Shingade, <b>Rohini Prashant Mudhalwadkar,</b> Komal M Masal	Random Forest, DT And SVM Machine Learning Classifiers for Seed with Advanced WSN Sensor Node	2022 International Conference on Automation, Computing and Renewable Systems (ICACRS).  Pages: 321-326, Publisher: IEEE	December 2022
2.	Sachin Dattatraya Shingade, <b>Rohini Prashant Mudhalwadkar,</b> Komal Mahadeo Masal	Random Forest Machine Learning Classifier for Seed Recommendation	2022 International Conference on Edge Computing and Applications (ICECAA).  Pages: 1385-1390, Publisher: IEEE	October 2022
<b>2021-2022</b>				
1.	Dipali Ramdasi, <b>Rohini Mudhalwadkar</b>	Parameter-Controlled Gas Sensor System for Sensor Modelling	Progress in Advanced Computing and Intelligent Engineering: Proceedings of ICACIE 2016, Volume 1.  Pages: 459-468, Publisher: Springer Singapore	November 2021
2.	Akshay Dhawan, Pauroosh Kaushal, <b>RP Mudhalwadkar</b>	Development of Low Cost and Portable Colorimeter Using TCS 3200 Color Sensor	2021 Asian Conference on Innovation in Technology (ASIANCON).  Pages: 1-5, Publisher: IEEE	August 2021
<b>2020-2021</b>				
1.	Sujit Sopan Barhate, <b>Rohini Mudhalwadkar</b>	Electrical Equivalent Model for Proton Exchange Membrane Fuel Cell Useful in On-Board Applications	Advances in Clean Energy Technologies: Select Proceedings of ICET 2020.  Pages: 649-661, Publisher: Springer Singapore	2021
2.	Pauroosh Kaushal, <b>Rohini P Mudhalwadkar</b>	Internet of things enabled electronic tongue for remote monitoring of water quality	Smart Sensors Measurements and Instrumentation: Select Proceedings of CISCON 2020.  Pages: 71-79, Publisher: Springer Singapore	2021
3.	Pauroosh Kaushal, <b>Rohini P Mudhalwadkar</b>	Stationary Wavelet Transform based Electronic Tongue for Predicting Taste Masking of Pharmaceutical Samples	2020 IEEE International Conference for Innovation in Technology (INOCON).  Pages: 1-6, Publisher: IEEE	November 2020
<b>2019-2020</b>				
1.	Sujit Barhate, <b>Rohini Mudhalwadkar</b>	Portable fuel cell system emulator as a hardware-in-loop setup	2nd International Conference on Communication &	April 2020

			Information Processing (ICCIP).	
<b>2018-2019</b>				
1.	Nachiket M Wadalkar, <b>Rohini P Mudhalwadkar,</b> Akshay A Sulkekar	Development of electrical impedance sensor system for milk adulteration (A1 and A2)	2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI).  Pages: 107-109, Publisher: IEEE	April 2019

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<b>Sr. No.</b>	<b>Authors</b>	<b>Title of the Publication</b>	<b>Name of the International Journal</b>	<b>Year</b>
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<b>2022-2023</b>				
1.	Jaswandi Sawant, <b>Uttam Chaskar</b>	A nonlinear disturbance observer based super twisting control for cooperative adaptive cruise control system affected by communication imperfections	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering.  Pages: 09544070231176590, Publisher: SAGE Publications	June 2023
2.	Jaswandi Sawant, <b>Uttam Chaskar</b>	A non-linear disturbance observer-based cooperative adaptive cruise control for real traffic scenarios	Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering.  Volume: 236, Issue: 9, Pages: 2057-2069, Publisher: SAGE Publications	August 2022
<b>2021-2022</b>				
1.	Nishigandha Dnyaneshwar Agham, <b>Uttam M Chaskar</b>	An advanced LAN model based on optimized feature algorithm: Towards hypertension interpretability	Biomedical Signal Processing and Control.  Volume: 68, Pages: 102760, Publisher: Elsevier	July 2021
<b>2020-2021</b>				
1.	Nishigandha Dnyaneshwar Agham, <b>Uttam M Chaskar</b>	Learning and non-learning algorithms for cuffless blood pressure measurement: a review	Medical & Biological Engineering & Computing.  Volume: 59, Issue: 6, Pages: 1201-1222, Publisher: Springer Berlin Heidelberg	June 2021
<b>2019-2020</b>				
1.	Jaswandi Sawant, <b>Uttam Chaskar</b> , Divyesh Ginoya	Robust control of cooperative adaptive cruise control in the absence of information about preceding vehicle acceleration	IEEE Transactions on Intelligent Transportation Systems.  Volume: 22, Issue: 9, Pages: 5589-5598, Publisher: IEEE	April 2020

**Prof. U. M. Chaskar**

<b>Sr. No.</b>	<b>Authors</b>	<b>Title of the Publication</b>	<b>Name of the International Conference</b>	<b>Year</b>
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<b>2022-2023</b>				
1.	Audumbar Badgire, Satish Kumbhar, <b>Uttam M Chaskar</b>	Estimation of blood pressure using Heart Rate Variability features with deep learning approach for limited database	2022 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N).  Pages: 1596-1600, Publisher: IEEE	December 2022
2.	Ashish Hiwale, <b>Uttam Chaskar</b>	Design and Development of IOT based Blood Pressure Measurement system	2022 13th International Conference on Computing Communication and Networking Technologies (ICCCNT).  Pages: 1-5, Publisher: IEEE	October 2022
3.	Lokesh R Supalkar, Ketaki A Ghodinde, <b>Uttam Chaskar</b>	Detection of Adulteration In Milk Using Electrical Impedance Sensor	2022 International Conference on Industry 4.0 Technology (I4Tech).  Pages: 1-5, Publisher: IEEE	September 2022
4.	Shiwani Nikhare, <b>Uttam Chaskar</b> , Surabhi Misar	Machine Learning Approach for Estimation of High Acquity ECG Monitoring System	2022 International Conference on Signal and Information Processing (IconSIP).  Pages: 1-6, Publisher: IEEE	August 2022
<b>2021-2022</b>				
1.	Ketaki Ghodinde, <b>Uttam Chaskar</b> , Lokesh Supalkar	Electrochemical impedance spectroscopy based sensor system for detection of detergents in cow milk	2022 3rd International Conference for Emerging Technology (INCET).  Pages: 1-6, Publisher: IEEE	May 2022
2.	Kshitija Ingle, <b>Uttam Chaskar</b> , Shashikant Rathod	Lung Cancer Types Prediction Using Machine Learning Approach	2021 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT).  Pages: 01-06, Publisher: IEEE	July 2021
<b>2020-2021</b>				
1.	Jaswandi Sawant, <b>Uttam Chaskar</b>	Development of Cooperative Adaptive Cruise Control with multiple predecessors' information and CarSim Validation	2021 10th IEEE International Conference on Communication Systems and Network Technologies (CSNT).	June 2021



			Pages: 453-458, Publisher: IEEE	
2.	Wakchaure Vrushali Balasaheb, <b>UM Chaskar</b>	Arterial blood pressure regulation using a novel fractional order based sliding mode elephant herd controller	2021 5th international conference on intelligent computing and control systems (ICICCS).  Pages: 496-502, Publisher: IEEE	May 2021
3.	Ketaki A Ghodinde, <b>Uttam M Chaskar</b>	Quantification of urea adulteration with impedance spectroscopy in cow milk	2021 6th International Conference for Convergence in Technology (I2CT).  Pages: 1-5, Publisher: IEEE	April 2021
4.	Nishigandha Agham, <b>Uttam Chaskar</b> , Prachi Samarth	An Unsupervised Learning of Impedance Plethysmograph for Perceiving Cardiac Events:(Unsupervised Learning of Impedance Plethysmograph)	2021 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS).  Pages: 470-475, Publisher: IEEE	February 2021
5.	Jaswandi Sawant, <b>Uttam Chaskar</b>	State feedback control of a platoon in the presence of parametric uncertainty and communication delay	2021 International Conference on Computing, Communication, and Intelligent Systems (ICCCIS).  Pages: 845-850, Publisher: IEEE	February 2021
6.	Pradip Mane, <b>Uttam Chaskar</b> , Prashant Mulay	Machine Learning-Based Classification of Heart Sound Using Hilbert Transform	Proceedings of Fifth International Congress on Information and Communication Technology: ICICT 2020, London, Volume 1.  Pages: 401-409, Publisher: Springer Singapore	2021
<b>2019-2020</b>				
1.	Vrushali B Wakchaure, <b>UM Chaskar</b>	Integral Order PID Controller for Linear Time Invariant of Nonlinear Model of Dynamic Biological Systems	2019 3rd International Conference on Recent Developments in Control, Automation & Power Engineering (RDCAPE).  Pages: 307-312, Publisher: IEEE	October 2019

<b>2018-2019</b>				
1.	Nishigandha Agham, <b>Uttam Chaskar</b>	Prevalent approach of learning based cuffless blood pressure measurement system for continuous health-care monitoring	2019 IEEE International Symposium on Medical Measurements and Applications (MeMeA).  Pages: 1-5, Publisher: IEEE	June 2019

**Prof. M. A. Khandekar**

<b>Sr. No.</b>	<b>Authors</b>	<b>Title of the Publication</b>	<b>Name of the International Conference</b>	<b>Year</b>
<b>2018-2019</b>				
1.	Amol P Dhongade, <b>MA Khandekar</b>	GPS and IMU Integration on an autonomous vehicle using Kalman filter (LabView Tool)	2019 International Conference on Intelligent Computing and Control Systems (ICCS). Pages: 1122-1125, Publisher: IEEE	May 2019

**Prof. S. S. Korde (Ketaki Ghodinde)**

Sr. No.	Authors	Title of the Publication	Name of the International Conference	Year
<b>2019-2020</b>				
1.	Manish Mahendra Patil, Tejesh Joshi, <b>Ketaki Ghodinde</b> , SS Satpute	Reintegration of Chromatogram to Enhance the Accuracy in Gas Chromatography	2020 International Conference for Emerging Technology (INCET). Pages: 1-5, Publisher: IEEE	June 2020
<b>2018-2019</b>				
1.	Akshay Y Kachor, <b>Ketaki Ghodinde</b>	<u>Design of microcontroller based agribot for fertigation and plantation</u>	2019 International Conference on Intelligent Computing and Control Systems (ICCS). Pages: 1215-1219, Publisher: IEEE	May 2019
2.	Mohini Sude, <b>Ketaki Ghodinde</b>	Electrical impedance sensor for real-time detection of urea and starch in milk	2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI). Pages: 431-434, Publisher: IEEE	April 2019

**Prof. K. A. Bhole**

<b>Sr. No.</b>	<b>Authors</b>	<b>Title of the Publication</b>	<b>Name of the International Journal</b>	<b>Year</b>
<b>2021-2022</b>				
1.	Prajakta Mhatre, <b>Kalyani Bhole</b>	STOCHASTIC BIOLOGICAL MODEL OF NEURON	International Journal of Engineering Applied Sciences and Technology.  Volume: 6, Issue: 10, Pages: 288-294	February 2022
<b>2020-2021</b>				
1.	Gujarathi Trupti, <b>Bhole Kalyani</b>	Interval Type-2 Fuzzy Logic Based Decision Support System for Cardiac Risk Assessment	New Trends in Computational Vision and Bio-inspired Computing: Selected works presented at the ICCVBIC 2018, Coimbatore, India.  Pages: 995-1008, Publisher: Springer International Publishing	2020
<b>2019-2020</b>				
1.	<b>Kalyani Bhole</b>	PID Controller with Fuzzy Inference System as Simple Feedback for Closed Loop Control of Intravenous Anesthesia	International Journal of Engineering and Advanced Technology (IJEAT).  Volume: 9, Issue: 1, Pages: 3163-3168, Publisher: Blue Eyes Intelligence Engineering & Sciences Publication	October 2019

**Prof. K. A. Bhole**

Sr. No.	Authors	Title of the Publication	Name of the International Conference	Year
<b>2022-2023</b>				
1.	Ashwini Dhandore, Prajakta Mhatre, <b>Kalyani Bhole</b>	Prediction of Drug Events using Machine Learning	2022 4th International Conference on Advances in Computing, Communication Control and Networking (ICAC3N).  Pages: 577-582, Publisher: IEEE	December 2022
2.	Prajakta Mhatre, <b>Kalyani Bhole</b> , Priyank Yeolekar	A Systematic approach for design of Patient Specific Surgical Guide (PSSG) for Oral Maxillofacial (OMF) Surgery using 3D Imaging	2022 International Conference on Signal and Information Processing (IConSIP).  Pages: 1-6, Publisher: IEEE	August 2022
3.	Prajakta Mhatre, <b>Kalyani Bhole</b>	Prediction of COVID-19 & Pneumonia using Machine Learning & Deep Learning Model	2022 International Conference on Signal and Information Processing (IConSIP).  Pages: 1-6, Publisher: IEEE	August 2022
<b>2021-2022</b>				
1.	Sanket Mahore, <b>Kalyani Bhole</b> , Shashikant Rathod	Machine Learning approach to classify and predict different Osteosarcoma types	2021 8th International Conference on Signal Processing and Integrated Networks (SPIN).  Pages: 641-645, Publisher: IEEE	August 2021
2.	Sanket Mahore, <b>Kalyani Bhole</b> , Shashikant Rathod	Comparative Analysis of Machine Learning Algorithm for Classification of different Osteosarcoma types	12 <sup>th</sup> International Conference on Computing and Networking Technology (ICCNT)	July 2021
3.	Pallavi J Khade, Pradip Mane, Sanket Mahore, <b>Kalyani Bhole</b>	Machine Learning Approach for Prediction of Aortic and Mitral Regurgitation based on Phonocardiogram Signal	12 <sup>th</sup> International Conference on Computing and Networking Technology (ICCNT)	July 2021
<b>2020-2021</b>				
1.	Rohit Bhimte, <b>Kalyani Bhole-Ingale</b> , Pritesh Shah, Ravi Sekhar	Precise Position Control of Quanser Servomotor using Fractional Order Fuzzy PID Controller	2020 IEEE Bombay Section Signature Conference (IBSSC).  Pages: 58-63	December 2020
<b>2019-2020</b>				
1.	Sarfaraj Mirza, <b>Kalyani Bhole</b> , Prateek Singh	Fetal ECG Extraction and QRS Detection using Independent Component Analysis	2020 16th IEEE International Colloquium on Signal Processing & Its Applications (CSPA)	February 2020

2.	Sarfaraj Mirza, Trupti Gujarathi, <b>Kalyani Bhole</b>	Cardiovascular risk assessment using intuitionistic fuzzy logic system	2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT). Pages: 1-7, Publisher: IEEE	July 2019
3.	Trupti Gujarathi, <b>Kalyani Bhole</b>	Gait analysis using imu sensor	2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT). Pages: 1-5, Publisher: IEEE	July 2019
4.	Tejal Bagal, <b>Kalyani Bhole</b>	Calibration of an optical sensor for in vivo blood glucose measurement	2019 2nd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICT). Volume: 1, Pages: 1029-1032, Publisher: IEEE	July 2019
<b>2018-2019</b>				
1.	<b>Kalyani Bhole</b> Pallavi Patil	X-ray tube and wireless detector alignment using Ultra-wideband and Inertial Motion Unit sensor	3rd International Conference on Trends in Electronics and Informatics Tirunelveli, India	April 2019
2.	<b>Kalyani Bhole</b> , Trupti Gujarathi	Interval Type 2 Fuzzy Logic based Decision Support System for Cardiac Arrest	International Conference on Computational Vision and Bio Inspired Computing	November 2018

**Prof. A. S. Deshpande**

Sr. No.	Authors	Title of the Publication	Name of the International Conference	Year
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<b>2022-2023</b>				
1.	Devesh Patil, Snehal Unde, <b>Amruta Deshpande</b>	Comparative Study of Sliding Surfaces Used in Photovoltaic Application to Track the Maximum Power	2022 International Conference on Emerging Trends in Engineering and Medical Sciences (ICETEMS).  Pages: 269-273, Publisher: IEEE	November 2022
2.	Amar B Shinde, <b>Amruta S Deshpande</b> , Snehal Unde	Design and Simulation of Self-tuning PID controller with MPPT for Solar Array using MATLAB/Simulink	2022 13th International Conference on Computing Communication and Networking Technologies (ICCCNT).  Pages: 1-6, Publisher: IEEE	October 2022
<b>2021-2022</b>				
1.	Manas Buzruk, Satyam Ghogare, <b>Amruta Deshpande</b>	A novel maximum power point tracking control without steady state oscillations using extremum seeking control algorithm	2021 Seventh Indian Control Conference (ICC).  Pages: 259-264, Publisher: IEEE	December 2021
2.	Dattatraya Yadav, <b>Amruta Deshpande</b> , Vijayraj Wanaskar	Novel Sliding Surface Control with Disturbance Observer for Antilock Braking System	2021 12th International Conference on Computing Communication and Networking Technologies (ICCCNT).  Pages: 1-6, Publisher: IEEE	July 2021
<b>2020-2021</b>				
1.	Ashwyn More, <b>Amruta Deshpande</b>	A multiple sliding surface based control for active seat suspension system	2021 5th International Conference on Intelligent Computing and Control Systems (ICICCS).  Pages: 641-647, Publisher: IEEE	May 2021
2.	Dattatraya Yadav, <b>Amruta Deshpande</b> , Vijayraj Wanaskar	Multiple Surface Sliding Mode Based Two-time Scale Technique for Antilock Braking System	2021 5th International Conference on Intelligent Computing and Control Systems (ICICCS).  Pages: 554-559, Publisher: IEEE	May 2021
3.	Krishna Saboo, Rucha Mangsule, <b>Amruta S Deshpande</b>	State of Charge (SoC) Estimation of Li-Ion Battery	2021 International Conference on Emerging Smart Computing and Informatics (ESCI).	April 2021



			Pages: 340-345, Publisher: IEEE	
4.	Vnnda Rupchand Borkar, <b>Amruta Deshpande</b>	Maximum Power Point Tracking of Photovoltaic Module: An Inertial Delay Control Approach	2020 IEEE 15th International Conference on Industrial and Information Systems (ICIIS). Pages: 34-39, Publisher: IEEE	November 2020
<b>2019-2020</b>				
1.	Vrinda Rupchand Borkar, <b>Amruta Deshpande</b>	Estimation based Sliding Mode Control to track Maximum Power Point of Photovoltaic Cells	2020 4th International Conference on Intelligent Computing and Control Systems (ICICCS). Pages: 116-121, Publisher: IEEE	May 2020
2.	Rathod Divyani, <b>Deshpande Amruta</b>	Fractional Controller Optimization for Liquid Level System Using MATLAB	Intelligent Computing, Information and Control Systems: ICICCS 2019. Pages: 209-219, Publisher: Springer International Publishing	2020
3.	Vishal Takle, <b>AS Deshpande</b>	DC Load Voltage Measurement Using Resonant Coupled Coils	2019 3rd International conference on Electronics, Communication and Aerospace Technology (ICECA). Pages: 774-776, Publisher: IEEE	June 2019
<b>2018-2019</b>				
1.	Nikunj Vijay Mahajan, <b>AS Deshpande</b> , SS Satpute	Prediction of Fault in Gas Chromatograph using Convolutional Neural Network	2019 3rd International Conference on Trends in Electronics and Informatics (ICOEI). Pages: 930-933, Publisher: IEEE	April 2019

## Prof. G. V. Lakhekar

Sr. No.	Authors	Title of the Publication	Name of the International Journal	Year
<b>2022-2023</b>				
1.	<b>GV Lakhekar</b> , LM Waghmare	Robust self-organising fuzzy sliding mode-based path-following control for autonomous underwater vehicles	Journal of Marine Engineering & Technology. Volume: 22, Issue: 3, Pages: 131-152, Publisher: Taylor & Francis	May 2023
2.	Rupam Gupta Roy, <b>Girish Vithalrao Lakhekar</b> , Muhammad Hassan Tanveer	Designing of neural network-based SoSMC for autonomous underwater vehicle: integrating hybrid optimization approach	Soft Computing. Volume: 27, Issue: 7, Pages: 3751-3763, Publisher: Springer Berlin Heidelberg	April 2023
<b>2021-2022</b>				
1.	SR Shiledar, GM Malwatkar, IS Jadhav, <b>GV Lakhekar</b>	Design of discrete sliding mode controller for higher order system	Reliability: Theory & Applications. Volume: 16, Issue: SI 1 (60), Pages: 90-97, Publisher: Интернет-сообщество Gnedenko Forum	2021
<b>2019-2020</b>				
1.	<b>Girish V Lakhekar</b> , Laxman M Waghmare, Prakash G Jadhav, Rupam Gupta Roy	Robust diving motion control of an autonomous underwater vehicle using adaptive neuro-fuzzy sliding mode technique	IEEE Access. Volume: 8, Pages: 109891-109904, Publisher: IEEE	June 2020
2.	<b>Girish Vithalrao Lakhekar</b> , Laxman M Waghmare, Rupam Gupta Roy	Disturbance observer-based fuzzy adapted S-surface controller for spatial trajectory tracking of autonomous underwater vehicle	IEEE Transactions on Intelligent Vehicles. Volume: 4, Issue: 4, Pages: 622-636, Publisher: IEEE	August 2019
<b>2018-2019</b>				
1.	<b>GV Lakhekar</b> , LM Waghmare	Adaptive fuzzy exponential terminal sliding mode controller design for nonlinear trajectory tracking control of autonomous underwater vehicle	International Journal of Dynamics and Control. Volume: 6, Pages: 1690-1705, Publisher: Springer Berlin Heidelberg	December 2018

**Summary:**

<b>Sr. No.</b>	<b>Academic Year</b>	<b>International Journals</b>	<b>International Conferences</b>	<b>Total</b>
1.	2023-2024	1	0	1
2.	2022-2023	22	31	53
3.	2021-2022	14	26	40
4.	2020-2021	24	26	50
5.	2019-2020	22	19	41
6.	2018-2019	13	21	34
	<b>Total</b>	96	123	219