

Conference Publications: Department of Electrical Engineering					
	Name of the author/s	Title of paper	Conference	Year of publication	ISBN/ISSN number
2024-25					
1	Sarika Kaple Satpute Sunil Kumar Manoj Tarambale	Frameworks for Investigating the Relationship Between Traffic Control and Emission Control Using Optimization	2024 Global conference Publisher IEEE Conference location Bangalore India	Date of Conference: 25-26 October 2024 Date Added to IEEE Xplore: 06 February 2025	Electronic ISBN:979-8-3503-8891-6 USB ISBN:979-8-3503-8890-9 Print on Demand(PoD) ISBN:979-8-3503-8892-3
2	Sunil Gaikwad, Savvy Gaikwad, Parag Chaudhari, Rajesh Holmukhe, Kishor Shinde, Hrishikesh Mehta	Determination of Optimal Tilt Angle for SPV Panels Using Various Irradiation Models	Global Conference in Emerging Technology (GINOTECH)	9– 11 May 2025	
3	Sunil Gaikwad, Savvy Gaikwad, Parag Chaudhari, Rajesh Holmukhe, Kishor Shinde, Hrishikesh Mehta	Life-Cycle Assessment of Rooftop Solar PV Generation Using Multi-crystalline and Mono-crystalline Modules	2025 Global Conference in Emerging Technology (GINOTECH)	9– 11 May 2025	
4	Sunil Gaikwad, Pavan Himane , Kishor Shinde, Hrishikesh Mehta	AI driven optimization of photovoltaic tilt angles for Maximizing solar yield in pune, India	2025 Global Conference in Emerging Technology (GINOTECH)	9– 11 May 2025	
5	Rajani S Hardas, Dr. Vijayalakshmi Biradar, Dr. M R Tarambale	Smart Grid Energy Management using Improved Swarm Optimization Algorithm	2024 Global Conference on Communications and Information Technologies (GCCIT)	Bangalore, India. Oct 25-26, 2024	
6	Rajani S Hardas, Dr. Vijayalakshmi Biradar, Dr. M R Tarambale	Smart Microgrid System Performance Awareness Management using Multi-Stakeholder Technique	2024 5th IEEE Global Conference for Advancement in Technology (GCAT)	Karnataka, India. Oct 4-6, 2024	
7	Ashwini A Deshpande, Dr. Sunil Kumar, Dr. Manoj Tarambale	Controlling the SRM Drive in Electric Vehicles (EVs) and Microgrid using Fuzzy Logic Technique.	2024 Global Conference on Communications and Information	Bangalore, India. Oct 25-26, 2024	

			Technologies (GCCIT)		
8	Ashwini A Deshpande, Dr. Sunil Kumar, Dr. Manoj Tarambale	EVS SRM Drive Control and Microgrid Integration	2024 5th IEEE Global Conference for Advancement in Technology (GCAT)	Karnataka, India. Oct 4-6, 2024	
9	Shilpa D Joshi, Dr. Vijayalaxmi Biradar, Dr. Manoj Tarambale	Frequency Regulation Improves Power Systems using Renewable Energy	2024 5th IEEE Global Conference for Advancement in Technology (GCAT)	Karnataka, India. Oct 4-6, 2024	
10	Shilpa D Joshi, Dr. Vijayalaxmi Biradar, Dr. Manoj Tarambale	Regulating Frequencies Enhances Renewable Energy Power Systems	2024 Global Conference on Communicatio ns and Information Technologies (GCCIT)	Bangalore, India. Oct 25- 26, 2024	
11	Sarika Kaple (Satpute), Dr. Sunil Kumar, Dr. Manoj Tarambale	Framework for studying traffic-emission control relationships using moves	2024 5th IEEE Global Conference for Advancement in Technology (GCAT)	Karnataka, India. Oct 4-6, 2024	
12	Sarika Kaple (Satpute), Dr. Sunil Kumar, Dr. Manoj Tarambale	FRAMEWorks for Investigating the Relationship Between Traffic Control and Emission Control Using optimization	2024 Global Conference on Communicatio ns and Information Technologies (GCCIT)	Bangalore, India. Oct 25- 26, 2024	
13	Ganesh Wadmare, Jyoti Wadmare, Mangesh S. Thakare	Virtual Inertia and Virtual Damping in Renewable Microgrids: Pathways to Sustainable Frequency Control	International Conference on Futuristic Advances in Mechatronics Engineering for Aerospace and Defence (ICFAMEAD 2024), at Symbiosis	5th October 2024	

			Institute of Technology (SIT), Pune, during 4th - 5th October 2024		
14	Aniket Hattarge, Mangesh Thakare	Performance Investigations of Photovoltaic Thermal Air Collector Across Diverse Indian Climates	International Conference on Futuristic Advances in Mechatronics Engineering for Aerospace and Defence (ICFAMEAD 2024), at Symbiosis Institute of Technology (SIT), Pune, during 4th - 5th October 2024	5 th October 2024	
15	Sandeep Khalkar and Mangesh S. Thakare	Design and Engineering Review of Metallized Film Capacitors for Sensitive Applications and Sustainable Solution	International Conference on Futuristic Advances in Mechatronics Engineering for Aerospace and Defence (ICFAMEAD 2024), at Symbiosis Institute of Technology (SIT), Pune, during 4th - 5th October 2024	5th October 2024	
	2023-24				
1	Dr. Manoj Tarambale	Enhancing Coronary Heart Disease Risk Assessment with Machine Learning	1st International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIIHI-2023)	29-30 th December 2023	

2	Dr. Manoj Tarambale	Enhancing Brain Tumor Detection using Convolutional Neural Networks in Medical Imaging	1st International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIHI-2023)	29-30 th December 2023	
3	Dr. Manoj Tarambale	Machine Learning-based Monitoring and Prognosis of Chronic Kidney Disease Patients	1st International Conference on Artificial Intelligence for Innovations in Healthcare Industries (ICAIHI-2023)	29-30 th December 2023	
2022-23					
1	Mrs. Gauri M. Karve, Dr. Mangesh Thakare, Dr. Mrs. Geetanjali Vaidya	Optimum Sizing of Solar/Wind/Battery Storage in Hybrid Energy System Using Improved Particle Swarm Optimization and Firefly Algorithm	International Conference in Artificial Intelligence & Machine Learning – (ICIAIML), Bangkok	20 th August 2022	
2	Harshada Pohankar, Mangesh S. Thakare	Optimal Sizing and Placement of Distributed Generation using Extended Distribution Load Flow with Power Stability Index	International Conference on Multidisciplinary Research (ICMR - 2022) at Sharnbasva University, Kalaburagi, Karnataka, India	22nd to 24th November 2022	
3	Gauri M. Karve, Mangesh S. Thakare, Geetanjali A. Vaidya	Impact of Extreme Weather Parameters on Optimum Sizing of Solar Photovoltaic-Battery System Considering Case Study of India and Iran	International Conference on Multidisciplinary Research (ICMR - 2022) at Sharnbasva University, Kalaburagi, Karnataka, India	22nd to 24th November 2022	
4	Mrs. K. M. Kurundkar Dr. Mrs. G. A. Vaidya	Application of IEHO for optimization of operation cost of	2nd International	Aug-22	ISBN : 978-93-92105-01-2

		grid-connected microgrid with energy storage	Conference on Research Trends in Engineering and Management		
5	Mrs. K. M. Kurundkar Dr. Mrs. G. A. Vaidya	Review of Ancillary Services through DER's for Grid Stability: Its Prospects, Benefits, Policies And Regulatory Reforms in Context of Growing Indian Power Sector	National Conference on Energy and Environment for Sustainable Development (NCEESD-2022)	Jul-22	
2021-22					
1	Priyanka D Jagdale Mangesh S. Thakare	Techno economic Analysis and Simple Sizing Approach for Isolated Solar Powered EV Charging Station	International Conference on Innovations in Communication Computing and Sciences – (ICCS-2021)	August 2021	ISBN: 0094-243X
2	Diksha Lawangewar, Geetanjali Vaidya	Management of LV grid through Battery Energy Storage system	National Conference on Energy and Mobility (NCEAM-21)	December 2021	
2020-21					
1	Dr. Sunil Gaikwad, Hrishikesh Mehta	Investigation of effects of increasing EV penetration on distribution transformers in Modi Ganpati Area, Pune. (DOI: 10.1109/EPEC48502.2020.9319915)	2020 IEEE Electric Power and Energy Conference (EPEC)	January 2021	ISSN: 2381-2842
2	Lalit Rokade, M.P. Bhawalkar	Switched Reluctance Machine Speed Control and Torque stabilization using PID controller	International Conference on Power Initiatives ICPI 2020	22-23 July 2020	
3	Mrs. Kalyani Kurundkar, Mrs. G. M. Karve, Dr. Mrs. G. A. Vaidya	Techno-Economic Analysis and Optimal Sizing of Stand-alone Hybrid AC-DC Microgrid by Nature inspired Firefly algorithm and Particle Swarm Optimization	International Conference on Intelligent Technologies (CONIT)	25-27th June, 2021	
4	Mrs. Kalyani Kurundkar, Mrs. G. M. Karve, Dr. Mrs. G. A. Vaidya	Optimal placement of reactive power compensation devices in Distribution Network By IEHO-TOPSIS Approach	International Virtual Conference on Emerging Trends in	23rd - 24th July 2021 at Marathwada Mitra Mandal Trust, Pune	

			Engineering and Management Science-2021 (ICETEMS-2021)		
2019-20					
1	Dr Surekah Deshmukh, Dr D J Doke, Jayashree Satre, Miss Suruchi Sihna	Development of LSTM-Neural Network for Predicting Very Short Term Load of Smart Grid to participate in Demand Response Program	International Conference on Data Management Analytics and Innovation (ICDMAI) 2020	17th 19th January 2020, New Delhi	
2	Bhagyashri Belle, Uday B Sarode Dr. M. S. Thakare	Study and Analysis of Resistive Superconducting Fault Current Limiters (SFCL) In Grid Connected Power System	International Conference 'Impact of Changing Energy Mix in the Power Sector'	November 23-24, 2019	
3	Tejaswini B. Dhole, Prof. U. S. Thakar	Different Topologies of Transformerless inverter for application of PV to Grid Tie system	International Conference 'Impact of Changing Energy Mix in the Power Sector'	November 23-24, 2019	
4	Dr Surekah Deshmukh, Dr D J Doke, Mrs Jayashree Satre	Estimating Inertia support at identified sensitive nodes to mitigate the effect of reduced inertia due to increased penetration of Renewable Energy generation in a Power System	International Conference 'Impact of Changing Energy Mix in the Power Sector'	November 23-24, 2019	
5	Sonali Patil, Dr Surekah Deshmukh	Development of Control Strategy to Demonstrate Load Priority System for Demand Response Program	5th IEEE International WIE Conference on Electrical and Electronics Engineering,	15th-16th Nov 2019, Bangalore, India.	
6	Gauri M. Karve, Kalyani M. Kurundkar Dr. Geetanjali A. Vaidya	Implementation of Analytical Method and Improved Particle Swarm Optimization Method for Optimal Sizing of a Standalone PV/Wind and Battery Energy Storage Hybrid System	5th I2CT	2019 Pune Conference	
2018-19					

1	Gauri M. Karve, Kalyani M. Kurundkar Dr.Geetanjali A. Vaidya	Implementation of Analytical Method and Improved Particle Swarm Optimization Method for Optimal Sizing of a Standalone PV/Wind and Battery Energy Storage Hybrid System	5th I2CT , 2019 Pune	2019	
2	Jayashri Satre Dr Surekha Deshmukh	Deviation Settlement Mechanism Linked with Market Price in Indian Power Sector	IEEE WIECON-ECE 2018	14th-16th December 2018.	
3	Miss Kajal Bhangale, Dr Surekha Deshmukh	System Splitting Predictive Analytics Tool for Smart City to Enhance Restoration of Smart Grid	8th International Conference on Power Electronics (IICPE) 2018	13th-15th December 2018	ISBN No:- 978-1-5386-4996-1
4	Nikhil Kolte, Radha Ranjekar	Predictive control techniques for grid connected Solar photovoltaic power generation systems	International conference on waste, energy and Environment	5-7 Sept 2018	
5	Tejashree Pimprikar, Omkar Pawaskar, Dr. Arbind Kumar	Virtual Synchronous generator- a new trend in Technology for Smart Grid integration	ICICET-2018	29,33-31 Aug 2018	
6	Kiran kondwar, P. R. Khatri	Control strategies used for a 3phase 4 wire Topology for Transformerless Grid Tied Inverter	International conference on Electrical, Electronics, Communication & Robotics Engg.	8 th July 2018	
7	Kiran kondwar, P. R. Khatri	Control strategies used for Grid Tied Inverter	ICPEICES-2018	22-24 Oct 2018	
8	Aneket Hattargi Prof.U.B.Sarode	Comparative analysis of various phasor estimation techniques used in transmission line	Recent innovation in Electrical, electronics and communications engineering (ICRIEECE)	27 th and 28 th July 2018	
9	Sidharth Mane Dr.G.A.Vaidya,	Hybrid Energy Storage System Comprising Battery and Supercapacitor for Battery Life Extension of E-Rickshaw	Recent Trends in Mechanical Engineering [NCRTME-2018]	21 st and 22 nd June 2018	
10	Neha Bondarwad Prof.Mrs.Kalyani Kurundkar	Fault ride through capability for grid connected PV system with Supercapacitor energy storage system	Recent Trends in Mechanical Engineering [NCRTME-2018]	21 st and 22 nd June 2018	

11	Aniruddha Kulkarni Prof.G.M. Karve Prof.S.T. Gaikwad	Fuzzy Logic based Maximum Power Point Tracker for Photovoltaic based Distributed generation systems	Recent Trends in Mechanical Engineering[N CRTME-2018]	21st and 22nd June 2018	
12	Namita Cherekar, Dr. M. S. Thakare	Analysis of Sizing Methods for Design of Grid connected Solar PV systems	Recent Trends in Mechanical Engineering[N CRTME-2018]	21st and 22nd June 2018	
2017-18					
1	Aishwarya Apte, Vrunda Joshi, Rahee Walambe	Generalized ESO for Multiple Input Systems with Mismatched Uncertainty and the solution using Lyapunov Stability Analysis: Application to PMSM	IFAC Conference on Advances in Control and Optimization of Dynamical Systems	2018	
2	Rahee Walambe, Shreyas Nikte, Vrunda Joshi, Abhishek Ambike, Nimish Pitke, Mukund Ghole	Discussion on Problems and Solutions in Hardware Implementation of Algorithms for a Car type Autonomous Vehicle in	2nd Conference on Data Engineering and Communication Technology	2018	
3	Aishwarya Apte, Hrshikesh Mehta, Dr.Vrunda Joshi, Dr.Rahee Walambe	Sensorless vector control of PMSM using cascaded operation of Sliding Mode Observer and Non-linear Disturbance Observer	IEEE Symposium on Sensorless Control for Electrical Drives	2017	
4	Hrshikesh Mehta, Aishwarya Apte, Swapnil Pawar, Dr.Mrs.Vrunda Joshi	Vector Control of PMSM using TI F28069 using incremental build level approach	International Conference of Power System	21st-23rd Dec 2017	
5	Prof. P. G. Jamdade	Wind Speed Forecasting using New Adaptive Regressive Smoothing Models	Advances in Energy Research 2017	12-14 December 2017	
6	Pawan Ghogare Dr. M. S. Thakare	A Choice based sizing of Storage in Isolated Renewable Energy Systems	7th International Conference on Power Systems, 2017	21st-23rd December 2017	
7	Pranjal Wagh Dr. M. S. Thakare	Analysis of Energy Consumption and Auditing of Educational building	Knowledge Discovery in Science and Technology	27th-28 th Feb 2018	
8	Devesh Imade, Dr. M. S. Thakare	Rural electrification using renewable energy sources	New Paradigms in Engineering Technology and	05th November 2017.	

			Management -2017		
9	Swapnil Patil, Dr. Mangesh Thakare	Power management and Control Strategies of PV-FC hybrid system with storage Grid connected Mode	International conference of Computing, Communication, Control and Automation	17 th & 18 th Aug 2017	
2016-17					
1	Somitra Kunte, Mandar Bhawalkar, Dr. N. Gopalkrishan, Dr. Y. P. Nerkar	Brushless Doubly fed Reluctance machine and its control	I ² IT, ICACDOT	Sept 2016.	978-1-5090-2080-5
2	S. Kunte, M. P. Bhawalkar Dr Y. P. Nerkar, Dr. N. Gopalkrishan	Optical Design and Comparative analysis of Different configurations of Brushless Doubly Fed Reluctance Machine	IEEE Conference ICEMS	2016	ISBN No. 978-81-924990-4-8
3	S. Kunte, M. P. Bhawalkar Dr Y. P. Nerkar Dr. N. Gopalkrishan Dr. Mrs. G. A. Vaidya	Selection of Suitable Pole combination of BDFRM for variable speed applications	IEEE WIE CONFERENCE,	19-21 Dec 2016	Electronic ISBN No. 978-1-5090-3745-2
4	Akshay A. Dhotre . Mrs. S. S. Deshpande Dr. Mrs. R. A. Walambe, Dr. Mrs. V. A. Joshi	Data Acquisition and Hardware Setup Development for Implementation of Feedback Control and Obstacle Detection for Car type Robot	Advancements in Automation and Sensing (ICAARS2016)	June 2016	ISBN: 978-9-8110-2845-8
5	Prof. Mrs. G. M. Karve Dr. G. A. Vaidya	Sodium Batteries : A New Era of Electrical Energy Storage	Electric Power & Power Electronic Control Systems	6th- 7th May 2016.	-
6	Mrinal Patil Dr. Mrs. S. R. Deshmukh	Electric Power Price Forecasting Using Data Mining Techniques	IEEE conference on Data Mining Management and Analysis.	24-26 Feb 2017	To be appear on IEEE explore
7	Nilima Gore, Prof. Mrs. P. R. Khatri	Voltage and frequency controller for isolated wind energy conversion system	Innovation in Electrical and electronics Engineering	21 st Aug. 2016	ISBN: 978-93-85225-72-7
8	Prof. Mrs. G. M. Karve, Dr. G. A. Vaidya	Community Energy Storage : National and International Scenario	7th IEEE Conference on Power Electronics and Power Systems, Thapar University,	17th- 19th Nov 2016	-

			Patiyala, Punjab		
9	M.P.Bhawalakr, O. S. Pawaskar A. Pendase, Pallavi wagh S. Kulakarni M. Sonawane M. Kulkarni	Production friendly design and development of brushless DC machines	Electrical Machines and Systems (ICEMS)	13-16 Nov 2016	978-4-88686- 098-9
10	Varsha Galgali, Dr. G. A. Vaidya	Selection of distributed generation system using multi criteria decision making fuzzy TOPSIS optimization	Reliability, Infocom Technologies and Optimization (Trends and Future Directions)(IC RITO)	7 Sept 2016	978-1-5090- 1489-7