

Journal Publications: Department of Electrical Engineering					
Sr. No.	Name of the author/s	Title of paper	Journal Title	Year of publication	ISBN/ISSN number
2025-26					
1	Manish Meena, Mangesh S. Thakare, Nitin Dutt Chaturvedi,	Determining robust standing against ecological thresholds: uncertainty-driven environmental affordability,	Next Research (Elsevier Ltd - Sciencedirect.com) Volume 6, 2026, 101406	January 2026	Online ISSN: 3050-4759 https://doi.org/10.1016/j.nexres.2026.101406
2024-25					
1	V. Dankan Gowda N. Suganthi V. Nuthan Prasad Manoj Tarambale Pullela SVVSR Kumar A. Muthusamy	Implementing secure cryptographic protocols in 5G and 6G networks	Journal of Discrete Mathematical Sciences and Cryptography Volume 28,2025 Issue 5-A Pages 1505–1515	August 2025	Print ISSN: 0972-0529 , Online ISSN: 2169-0065 https://doi.org/10.47974/JDMSC-2149
2	V. Dankan Gowda Pullela SVVSR Kumar Praveen Damacharla Manoj Tarambale Prasanna Kumar Lakineni Prasanna Kumar Lakineni	Enhancing machine learning robustness against adversarial attacks through cryptographic techniques	Journal of Information and Optimization Sciences Volume 46,2025 Issue 4-A Pages 927–937	online: May2025	Print ISSN: 0252-2667 , Online ISSN: 2169-0103 https://doi.org/10.47974/JIOS-1818
3	Rajani S Hardas, Dr. Vijayalakshmi Biradar, Dr. M R Tarambale	A comprehensive review on energy management techniques in smart Microgrids: Challenges and opportunities	International Journal of Advanced Science and Research	August 2024	ISSN: 2455-4227
4	Shilpa D Joshi, Dr. Vijayalakshmi Biradar, Dr. M R Tarambale3	Optimizing load frequency control in power systems with high penetration of renewable energy sources	International Journal of Advanced Science and Research	June2024	ISSN: 2455-4227
5	Manoj Tarambale , P.Srinivasan, M. Shantha Kumar , Srinivas, Venkatesan Hariram , Rajesh.	Bioinformatics in the Age of IoT Using Machine Learning Approaches	African Journal of Biological Sciences Volume 6, Issue 8, 2024	June 2024	ISSN: 2663-2187 Doi: 202410.48047/AFJBS.6.8.2024.3323-3335

6	Dr. Manoj Tarambale Dr. Pranoti Prashant Mane, Bharati P. Vasgi , Dr Shubhangi Milind Joshi , Dr. Nitin Dhawas , Vivek Deshpande	Wave Propagation Models for Optimization in Wireless Communication	Pan-American Mathematical Journal Vol 34 No. 4 (2024)	August 2024	ISSN: 1064-9735 DOI: https://doi.org/10.52783/pmj.v34.i4.1897
7	Dr. Sunil T. Gaikwad, Hrishikesh Mehta	Mitigating distribution transformer loss of life through combined integration of rooftop solar photovoltaic installations and electric vehicle charging	e-Prime - Advances in Electrical Engineering, Electronics and Energy	December 2024, Version of Record 16 December 2024	ISSN: 2272-6711
8	Prathamesh Tagare and Omkar Pawaskar	Comprehensive Analysis and Mitigation of High voltage Challenges in grid connected Solar PV system for Sustainable Integration	published in Mukta Shabd Journal, Volume XIV, Issue IV,	April 2025	ISSN No 2347-3150,
9	Gauri M. Karve, Mangesh S. Thakare, Geetanjali A. Vaidya	Optimal Siting and Sizing of Battery Energy Storage in Distribution System in View of Resource Uncertainty	Energies, Volume 18, No.9, 2340. Publisher: MDPI	May 2025	E-ISSN: 1996-1073), (Scopus Indexed Q1 Journal) (DOI: 10.3390/en18092340)
10	Gauri M. Karve, Mangesh S. Thakare, Geetanjali A. Vaidya	Optimal Sizing of Photovoltaic and Battery Energy Storage Systems Incorporating Constant Current and Constant Power Load Models	SSRG-International Journal of Electrical and Electronics Engineering (SSRG-IJEEE), Volume 12 Issue 5 Year of Publication : 2025	May 2025	E ISSN: 2348-8379), (Scopus Indexed Journal) DOI: https://doi.org/10.14445/23488379/IJEEE-V12I5P108
11	Harshada P. Pohankar, Mangesh Thakare and Anindita Roy	Application of Design Space Approach for Optimal Sizing and Placement of Distributed Generation	"International Journal of Ambient Energy."(Q1), Taylor & Francis.	Dec-24	ISSN: 0143-0750 Online ISSN: 2162-8246 https://doi.org/10.1080/01430750.2024.2434862
12	Hrishikesh Mehta, Sunil Gaikwad	Mitigating Distribution Transformer Loss of Life Through Combined Integration of Rooftop	Elsevier's journal, e-Prime - Advances in Electrical Engineering,	Dec-24	Online ISSN: 2772-6711

		Solar Photovoltaic Installations and Electric Vehicle Charging	Electronics and Energy		
13	Gauri M. Karve, Mangesh S. Thakare, Geetanjali A. Vaidya	Impact of Extreme Weather Parameters on Optimum Sizing of Solar Photovoltaic-Battery Energy Storage Systems: A Case Study	International Journal of Electrical and Electronics Research (IJEER), Volume 12 issue 4 pages 1357-1363	Dec 2024	(E ISSN: 2347-470X), (Scopus Indexed Journal) DOI: 10.37391/ijeer.120429
2023-24					
1	Dr. Ravindra malkar, Manoj Tarambale, Dr. Saju RajT, Dr. Amrapali Shivajirao Chavan, Dr. Cheten Nimba Aher, Geetha P	Advancing network lifetime in wireless sensor networks through localization techniques: A perspective from computer Networks	Intelligent systems and applications in engineering	March 2024	(ISSN: 2147-6799), (Scopus Indexed Journal)
2	Gauri M. Karve, Mangesh S. Thakare, Geetanjali A. Vaidya	Impact of Load Uncertainty on Optimum Placement and Sizing of Battery Energy Storage in Distribution System	International Journal of Intelligent Systems and Applications in Engineering (IJISAE), Volume 12(3), May 2024, 3331-3341.	May 2024	(ISSN: 2147-6799), (Scopus Indexed Journal)
3	Anjali .A. Valekar, Mangesh S. Thakare	Optimization Framework for Determining Market Clearing Prices in Renewable Integrated Microgrids: A Case Study from India	Journal of Technology	May 2024	(ISSN: 1012-3407, Volume 12, Issue 5, May 2024, 1310-21 (UGC-CARE Approved Group- 2 Journal)
4	Vaibhav Magdum, Rajkumar Chougule, Manoj Tarambale, Amrapali Shivajirao Chavan, Cheten Nimba Aher, Veena Suhas Bnende	Enhancing Concept Drift Classification in Computer Networks with Artificial Intelligence through NCDC - DM : A Novel Approach Utilizing Diversity measure	Intelligent systems and applications in engineering	March 2024	(ISSN: 2147-6799), (Scopus Indexed Journal)
5	Lakshminarayan Sahoo, Sanchita Guchhalte, Tofigh Allahviranloo, Jambi Ratna Raja Kumard, Manoj Ramesh Tarambale, Muammer Catak	Conflict distance-based variable precision Pythagorean fuzzy rough set in Pythagorean fuzzy decision systems with applications in decision making	Journal of Mathematics and Computer Science	December 2023	195N 2008-949X
	Manoj Tarambale, Ketaki Naik, Rahul	Detecting Fraudulent Patterns: Real-Time	International Journal of	February 2024	2147-6799

6	Manohar Patil, Rajendra V. Patil, Shailesh Deore, Mahua Bhowmik	Identification using Machine Learning	Intelligent Systems and Applications in Engineering Vol 12 No 145 (2024)		
7	Mahendra Deore Manoj Tarambale, Jambi Ratna Raja Kumar, Sachin Sakhare	Granulometry Analysis With Semi Eager Classifier to Detect Malware	International Journal of Interactive Multimedia and Artificial Intelligence	December 2023	<u>ISSN 1989-1660</u> (Online)
8	Mrs. Kalyani Kurundkar and Dr. Mrs. Geetanjali Vaidya	Voltage Control Ancillary Service Through Grid- Connected Microgrid, Its Pricing by Optimized Active Power and Reactive Power Management Using IEHO-TOPSIS Approach	Iranian Journal of Science and Technology, Transactions of Electrical Engineering	Oct-23	2228-6179
9	Mrs. Kalyani Kurundkar and Dr. Mrs. Geetanjali Vaidya	Congestion Management Ancillary Service at Distribution level through grid- connected microgrid based on DLMP and HFPSO-TOPSIS approach	Cogent Engineering	December 2023	2331-1916
	2022-23				
1	Optimum Sizing of Photovoltaic System with Battery Energy Storage Considering Load Modelling and Variation in System Voltage	Mrs. Gauri M. Karve, Dr. Mangesh Thakare, Dr. Mrs. Geetanjali Vaidya	JOURNAL OF OPTOELECTRONIC S LASER Volume 41, Issue 9	Sep-22	ISSN:1005-0086,

2	Stochastic Security-Constrained Economic Dispatch of Load-following and Contingency reserves ancillary service under uncertainty	Mrs. Kalyani Kurundkar and Dr. Mrs. Geetanjali Vaidya	Energies by MDPI Electric Power Components and Systems	March 2023	ISSN: 1996-1073 ISSN: 15325016, 15325008
2021-22					
1	Kalyani Kurundkar, Dr. Mrs. G. A. Vaidya	"Application of HFPSO-TOPSIS approach for optimally locating and sizing of reactive power compensating devices for voltage control ancillary service"	International Journal of Electrical And Electronics Research, Vol 9, Issue 4.	December 2021.	e-ISSN: 2347-470X
2	Renuka Joshi, Pratiksha Gurav, Siddhi Naik, Sushmit Tayade, Omkar Pawaskar, Gauri Karve	"Harmonic Analysis of Different Types of Discharge Lamps"	Journal of Instrumentation and Innovation Sciences (e-ISSN: 2456-9860)", in Volume 7, Issue 1, 2022	April 2022	e-ISSN: 2456-9860
3	Kajol Kate, Omkar Pawaskar	"Design and Simulation of various Batteries used in Electric Vehicle to Improve Performance of Electric Vehicle using Simulink"	Journal of Controller and Converters, Volume 7, Issue 1, 2022	April 2022	e-ISSN: 2456-9860
2020-21					
1	Aishwarya Apte, Hrishikesh Mehta, Dr.Vrunda Joshi, Rahee Walambe	Disturbance Observer based Sensorless Control of PMSM using Integral State Feedback Controller	IEEE Transactions on Power Electronics. vol. 35, no. 6, pp. 6082-6090,	June 2020	doi: 10.1109/TPEL.2019.2949921 Print ISSN: 0885-8993 Electronic ISSN: 1941-010
2	Varsha Galgali Ramachandran M, Dr.Geetanjali Vaidya	Multi-Objective Optimal Placement and Sizing of DGs by Hybrid Fuzzy TOPSIS and Taguchi Desirability	Electrical Power components and systems (Taylor and Francis)	May 2021	Print ISSN: 1532-5008 Online/e-ISSN: 1532-5016

		Function Analysis Approach	Volume 48, Issue 19-20.		https://www.tandfonline.com/doi/full/10.1080/15325008.2021.1925377
3	Mrs. Kalyani Kurundkar, G. M. Karve, Dr. G. A. Vaidya	Comparative performance analysis of Firefly algorithm and Particle swarm Optimization for Profit Maximization of Grid connected Microgrid providing energy and ancillary service	Journal of Solid-State Technology (SCOPUS indexed Journal) Vol.64. No.2 (2021), pp 4607-4626	March 2021	ISSN: 0038-111X https://solidstatejournal.com/index.php/JSST/article/view/10283
4	P. G. Jamdade S. G. Jamdade	Modeling and Prediction of COVID-19 Spread in the Philippines by October 13, 2020, by using the VARMAX Time Series Method with Preventive Measures	Results in Physics (Elsevier) Elsevier - Results in Physics, 20, 103694, 2021	Jan 2021	ISSN: 2211-3797 doi: https://doi.org/10.1016/j.rinp.2020.103694
5	P. G. Jamdade, P. A. Godse, P. P. Kulkarni, S. R. Deole, S. S. Kolekar S. G. Jamdade	Wind Speed Forecasting using New Adaptive Regressive Smoothing Models	Springer Proceedings in Energy Chapter9, Proceedings in Energy, Vol. 2, pp. 93-101, 2020,	Jan 2020	ISBN 978-981-15-2662-6, https://doi.org/10.1007/978-981-15-2662-6_9
6	Prof. O. S. Pawaskar Sania Walunjkar, Prathamesh Tagare, Aditya Nawale, Anuja Patil	Design simulation and Analysis of Dynamic Wireless Charging of Electric Vehicles	IJRSET International Journal of Innovative Research in Science, Engineering & Technology (IJRSET), Volume 10, May 2021	May2021	e-ISSN 2319-8753
2019-20					

7	Ravina Kale, Mrs. G.M.Karve, Mrs. K.M.Kurundkar, Dr.Mrs. G.A.Vaidya	Implementation of Fuzzy Logic Controller for Energy Management of Hybrid Energy Storage System in PV Based Microgrid	All India Seminar on Green Energy Technologies for Sustainable Environment	October 2019	
8	Pranav Patil, Radheya Patil, Shreyas Kanere, Sourabh Tajane, Prof. Mrs. G. M. Karve	Design and Implementation of Charging of Battery Energy Storage System using Buck Converter and C2000 MCU's Launchpad in PV based Microgrid	All India Seminar on Green Energy Technologies for Sustainable Environment	October 2019	
9	Mandar Bhawalkar Dr.N Gopalakrishnan Yogesh Nerkar,	Reactive power capability curve of brushless doubly fed reluctance generator	Wind Engineering 1-19	July 2019	DOI: 10.1177/0309524X1987277
10	Akash G. Bhople, Prof. O.S. Pawaskar	An analysis of an adjustable speed PFC BL-SEPIC and ZETA converter fed PMBLDCM	Grenze International journal of Engineering and technology	July 2019	
11	Varsha Galgali Ramachandran M, Geetanjali Vaidya	Multi-objective Optimal Sizing of Distributed Generation by Application of Taguchi Desirability Function Analysis	SN Applied Sciences [Springer]	18 th June 2019	https://doi.org/10.1007/s42452-019-0738-3
12	Anuja Gavali, Dr. Mrs. Surekha Deshmukh	Simulation of metallic particles in single phase gas insulated bus duct	International Journal of Advance and Innovative Research, Volume 6, Issue 2	April- June 2019	ISSN: 2394-7780
13	Anjali Kulkarni, Dr.Surekha Deshmukh	Monte carle Simulation technique for analyzing frequency time response	International Journal of Advance and Innovative Research Volume 6, Issue 2	April- June 2019	ISSN: 2394-7780
2018-19					
1	Aishwarya Apte, Ujjwala Thakar, Dr.Vrunda Joshi	Disturbance Observer based Speed Control of PMSM Using Fractional Order PI Controller	IEEE/CAA Journal of Automatica Sinica, Vol. 6, NO. 1	JANUARY 2019	DOI 10.1109/JAS.2019.1911354.
2	Ujjwala Thakar, Dr.Vrunda Joshi	Composite Non-linear feedback control using Mittag-Leffler function	International Journal of	JANUARY 2019.	ISSN: 2195-268X,

	Dr.Vishwesh A. Vyawahare		Dynamics and Control Vol.7, No.2, pp. 785-794		DOI:- 10.1007/s40435-018-00504-7
3	Varsha Galgali Ramachandran M, Dr.Geetanjali Vaidya	Multi-objective Optimal Sizing of Distributed Generation by Application of Taguchi Desirability Function Analysis	SN Applied Sciences [Springer]	2019	
4	A.D. Purandare, Dr. N. Gopalakrishan, Dr. Y. P. Nerkar	An overview of Applications of DSTATCOM	IJASE New delhi, India	Sept. 2018	-
5	A.D. Purandare, Dr.N.Gopalakrishan Dr. Y. P. Nerkar	Review of Control strategies of DSTATCOM	IJASE New delhi, India	Sept. 2018	-
6	A.D. Purandare Dr.N.Gopalakrishan Dr. Y. P. Nerkar	Threee phase Three Level Voltage Source Inverter with voltage balancer- A simulation study in MATLAB/SIMULINK	International Journal of Electrical Engg. and Technology (IJEET)	July 2018	
7	Prof.Mrs.P.R.Khatri, Prof. S.T Gaikwad Hrishikesh Mehata	Study and Simulation of a Three Phase Five Level Diode Clamped Inverter for Solar PV based Grid-tied application with LCL filter	Asian Journal in Convergence in Technology, Volume IV, Issue-I	April, 2018	ISSN: 2350-1146
8	Pranjal Wagh Dr. M. S. Thakare	Analysis of Energy Consumption and Auditing of Educational building	International Journal of Computer Engineering and Applications Volume XII, Special Issue	April 2018	ISSN 2321-3469
9	Rahee Walambe, Dr.Vrunda Joshi	Closed Loop Stability of a PMSM-EKF Controller-Observer Structure	IFAC paper online Advances in Control and Optimization of Dynamical Systems Vol.51, No.1	2018	pp. 249-254, 2018 ISSN. 2405- 8963
	2017-18				
	V.S.Galgali.	Techniques for Optimal Placement and Sizing	Praise Worthy Prize Journal of	Nov 2017	ISSN 1974-6059

1	M.Ramachandran Dr.G.A.Vaidya	of Distributed Energy Resources: A Review	International review of Automatic control Vol.10,N.6		
2	Jyoti A. Anagal, Dr.Vrunda A. Joshi, Dr.Rahee Walambe	State of Charge Estimation of Lithium Ferro Phosphate Battery Using Extended Kalman Filter	Journal of Control System and its Recent Developments	2017	
3	Prof.M.P.Bhawalkar Dr. Gopalakrishnan, Dr.Y.P.Nerkar	Optimal design and Comparative Analysis of Different configurations of Brushless Doubly Fed Reluctance Machine	Journal of Industry Application Society IEEJ	Nov 2017	
4	Ashwini Ghule Prof.Ujjwala Thakar	Analysis of three-leg VSC based DSTATCOM and T-connected transformer for power quality improvement	IEEMA journal	September 2017	
5	Rajesh kamble, Prof.G. M. karve	Optimal sizing of Grid independent standalone Photovoltaic system with battery energy storage	International Journal of Recent Trends in Engineering and Research Vol 3, issue 10	Oct 2017	ISSN: 2455-1457
6	Prof.M.P.Bhawalkar	An overview of wind power generating systems	IEEMA Journal,	Sept 2017	
7	Prof. K.M.Kurundkar, Dr. G. A. Vaidya	Ancillary services through MicroGrid for Grid security & Reliability	Electrical India Vol 57 No. 9	Sept 2017	
8	Megha Misal, Prof. G. M. Karve	Power quality issues Mitigation by using DSTATCOM	International Journal of Advance Research, Ideas & innovations in Technology Vol 3, Issue 5	June 2017	ISSN: 2454-132X
2016-17					
1	Mr. S. T. Gaikwad, Mr. A. S. Kudalkar., Dr. Y. P. Nerkar	Hybrid isolated system with back to back power converter and battery energy storage system	National Journal at The Institution of Engineers (India) Pune, Vol 40	Nov 2016	ISBN No: 978-81-924990-4-8

2	Mr. S. T., Gaikwad, P. S. Akotkar, Dr. Y. P. Nerkar	Optimal placement of Distribution Transformers in an urban network using Genetic algorithm with Graphical user interface in MATLAB	National Journal at The Institution of Engineers (India) Pune, Vol 40	Nov 2016	ISBN No: 978-81-924990-4-8
3	Mr. S. T. Gaikwad, T. R. Pardesi., Dr. Y. P. Nerkar	Modelling and control of a 30kW Hybrid power system connected to Grid	National Journal at The Institution of Engineers (India) Pune, Vol 40	Nov 2016	ISBN No: 978-81-924990-4-8
4	Mr. S. T. Gaikwad A. M. Mhamane. Dr. Y. P. Nerkar	Study of Microgrid with Grid and International Islanding	National Journal at The Institution of Engineers (India) Pune, Vol 40	Nov 2016	ISBN No: 978-81-924990-4-8
5	Mr. P. Salunkhe, M. Bhawalkar, Dr. N. Gopalkrishan, Dr. Y. P. Nerkar	Optimal Placement of Wind Power Generation in Electric Grid	National Journal at Institution of Engineers (India) Pune, Vol 40	Nov 2016	ISBN No. 978-81-924990-4-8
6	S. Kunte, M. P. Bhawalkar, Dr Y. P. Nerkar, Dr. N. Gopalkrishan, Dr. Mrs. G. A. Vaidya	A Simulation Study of Four Configurations of Brushless Doubly Fed Reluctance Machine	National Journal at The Institution of Engineers (India) Pune, Vol 2	Nov 2016	ISBN No. 978-81-932567-2-5
7	Ujjwala Thakar, Dr.Vrunda Joshi, Dr.Vishwesh A. Vyawahare	Design of fractional-order PI controllers and comparative analysis of these controllers with linearized, nonlinear integer-order and nonlinear fractional-order representations of PMSM	International Journal of Dynamics and Control	April 2016	ISSN 2195-268X
8	Miss. Pooja P. Katyarmal, Prof. Mr. Omkar Pawaskar	Impacts of addition of photovoltaic system to Distribution Grid.	National Journal at The Institution of Engineers (India) Pune, Vol 40	Nov 2016	ISBN No. 978-81-924990-4-8
9	Miss. Sonal B. Baravkar, Mrs. K. M. kurundkar	Comparison of PI controller And PR controller for Grid connected mode of operation of Micro Grid	National Journal at The Institution of Engineers (India) Pune, Vol 40	Nov 2016	ISBN No. 978-81-924990-4-8
10	Mrinal Patil, Dr. Mrs. S. R. Deshmukh	Day Ahead Market Price Forecasting using ARIMA	National Technical Journal of Institution of	Nov 2016	ISBN No. 978-81-924990-4-8

			Engineers (India), Pune Local Center ,Vol- 40		
11	Mr. S. T. Gaikwad G. D. Mane Dr. Y. P. Nerkar	Application of Smart Microgrid Technology and Smart water management at Pune Vidyarthi Griha's College of Engg, Pune	National Technical Journal of Institution of Engineers (India), Pune Local Center ,Vol- 40	Nov 2016	ISBN No. 978-81- 924990-4-8
12	Manjusha Kanwade, M. S. Thakare	Optimal planning and economical evaluation of cogeneration in sugar industry	National Technical Journal of Institution of Engineers (India), Pune Local Center ,Vol- 40	Nov 2016	ISBN No. 978-81- 924990-4-8
13	Thakare M. S., Krishna Priya G. S, Ghosh P. C., Bandyopadhyay S	Optimization of photovoltaic-thermal (PVT) based cogeneration system through water replenishment profile	Solar Energy 133 , 112-123	August 2016	ISSN No. 0038092X