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Research and Development Journal Publications 2024-2025

Department of Electrical and Electronics Engineering

S.No	Name of the Faculty Member	All Authors Name (As Mentioned in the Article)	Title of the Paper	Journal Name & Publisher	Vol, Issue, Page No, Month & Year of publication	Q1,Q2,Q3,Q4)	Impact Factor	Indexed in SCIE/ESCI/SCOPUS/	DOI-Link
1.	Dr. S.SELVI	S.Selvi, Anish Kumar J,M Joly, B.Rampriya	Levy Based smooth synchronization of microgrid integrated with multiple renewable sources	Electrical Engineering & Springer	2024	Q2	1.6	SCIE	https://link.springer.com/article/10.1007/s00202-024-02494-6#citeas
2	Dr. S.SELVI	B. Swaminathan, S. Selvi, R. Jothilakshmi, Santaji Krishna Shinde, J. Samson Isaac, Kirubakaran D,	Enhancing Performance optimization of an interleaved boost converter with water cycle optimized PO algorithm-based MPPT for the applications of solar-powered E-vehicles	INTERNATIONAL JOURNAL of RENEWABLE ENERGY & Gazi University RESEARCH	14,2,248-260, 2024	Q1	9.24	SCIE	https://www.ijrer.org/ijrer/index.php/ijrer/article/view/14277



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		Ravishankar sathyamurthy							
3.	Dr. S.SELVI	Selvi, S., Veerraju, M.S., Sandeep, K.V., Konduri, B., Vetrithangam, D.	Enhancing Short-Term PV Power Forecasting Using Deep Learning Models: A Comparative Study of DNN and CNN Approaches	SSRG International Journal of Electrical and Electronics & Seventh Sense Research Group Engineering,	11,8,72-80,2024	Q4	-	Scopus	https://www.internationaljournalssrg.org/IJEEE/2024/Volume1-Issue8/IJEEE-V11I8P107.pdf
4.	Dr. D Silas Stephen	S.KIRUBAKARA, AKABAR SAHEB BABULAL NADAF, V. S. PRIYA SUMITHA, K. ARULRAJAN, ARVIND	Dynamic Opportunistic Networking For Crowdsourced Waste Management And Pollution Control	Journal of Environmental Protection and Ecology & SciBul.Com	25,4,1040-1050	Q4	-	Scopus	https://scibulcom.net/en/article/7u34Z8PdD0wCWK0LjM43



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		KUMAR SHUKLA, STEPHEN D. SILAS							
5.	Dr. D Silas Stephen	Anbuchandran S, Arumuga Babu M, Silas Stephen D, Thinakaran M	A Hybrid Optimization for Distributed Generation and D- STATCOM Placement in Radial Distribution Network: A Multi- faceted Evaluation	Engineering Research Express & IOP Publishing Ltd.	6,3,1,14	Q2	1.4	WOS	https://iopscience.iop.org/article/10.1088/2631-8695/ad734c
6.	Dr. D Silas Stephen	S.Anbuchandran , D.Silas Stephen ,M.Arumuga Babu , A. Bhuvanesh	MIWO based MPPT of PV System for Induction Motor driven Water Pumping System	e-Prime - Advances in Electrical Engineering, Electronics and Energy & Elsevier	10,100835	Q1	4.40	WOS	https://www.sciencedirect.com/science/article/pii/S2772671124004157
7.	Dr. R.DHARMA PRAKASH	Karthick, K., Aruna, S.K., Dharmaprakash, R., Ravindiran, G.	Integrating machine learning techniques for Air Quality Index forecasting and insights from pollutant-meteorological dynamics in sustainable urban environments	Earth Science Informatics & Springer	2024	Q2	2.7	WOS	https://link.springer.com/article/10.1007/s12145-024-01382-8



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8.	Dr. R.DHARMA PRAKASH	Muthukaruppasamy, S., Dharmaprakash, R., Sendilkumar, S., Parimalasundar, E.	Enhancing off-grid wind energy systems with controlled inverter integration for improved power quality	Electrical Engineering and Electro mechanics & National Technical University "Kharkiv Polytechnic Institute"	5,41-47,2024	Q1	1.6	WOS	http://eie.khpi.edu.ua/article/view/308984/3005398
9.	Dr. R.DHARMA PRAKASH	M.Manoharan, S.Muthukaruapasamy, R.Dharmaprakash, S, SendiKumar, D.Dattateya Bhardwaj, E.parimalasundar	Powered Quality Enhancement of grid Integrated solar photovoltaic system with unified power quality conditioner.	Electrical Engineering and Electro mechanics & National Technical University "Kharkiv Polytechnic Institute"	6,2024	Q3	1.6	WOS	http://eie.khpi.edu.ua/article/view/313056/304107
10	Dr.S.Depa	Deepa Somasundaram, Sasikala Arumugham, Puviarasi Ramalingam, Kirubakaran Dhandapani, Kal	Optimal fuzzy controller for speed control of DC drive using salp swarm algorithm	International Journal of Power Electronics and Drive Systems (IJPEDS) & IAES	15,3,1951-1958,2024	Q3	-	Scopus	https://ijpeds.iaescore.com/index.php/IJPEDS/article/view/22900



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		aivani Ramaiyan							
11	Dr.S.Deepa	Deepa Somasundaram, R. Muthukumar, N. Rajavinu, Kalaivani Ramaiyan	Machine learning applications for predicting system production in renewable energy	International Journal of Power Electronics and Drive Systems (IJPEDS) & IAES	15,3,1925-1933,2024	Q3	-	Scopus	https://ijpeds.iaesco.re.com/index.php/IJPEDS/article/view/23263/14701
12	Dr.Manoj Kumar N	Anita, S., Sukhi, Y., Jeyashree, Y., Manoj Kumar, N.	Torque fault compensation in electric vehicle switched reluctance motor drives: A jellyfish search optimization method	Expert Systems with Applications	45,5195-2000,2024	Q1	1.87	SCI	https://onlinelibrary.wiley.com/doi/10.1002/oca.3133
13	Dr.Manoj Kumar N	Ashok B, Ravishanakar S, Manoj Kumar N, Anushkannan N.K, kaliappan S, karthikeyan N	A new Design of UPQC based Hybrid Multi carrier Modulation for transformer less grid Connected Pv-based Active Power Filter	Electric Power Components and Systems & Taylor & Francis Publisher	2024	Q1	1.9	SCI	https://www.tandfonline.com/doi/full/10.1080/15325008.2024.2303716



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14	Dr.B.Muthuraj	K Karthick , S Krishnan ,N Rajavinu , B Muthuraj	Seasonal Performance Analysis and Comparative Evaluation of Wind Power Prediction Models Using Machine Learning Techniques	Journal of Sustainability Research & Hapres	6,2, e240029, June 2024	Q3	-	SCOPUS	https://sustainability.hapres.com/htmls/JSR_1601_Detail.html
15	Dr.B.Muthuraj	HARSHA, SANDA SRI; KUMAR, G. ARUN; SELVA GANESAN, JANA; AARTHI, R.; DEVI, RANGISETTY NIRMALA; KIRUBAKARAN, S.; MUTHURAJ, B.; RAJARAM, A.	Fuzzy Inference System For Pulmonary Fibrosis Disease Identification Through Chest X-Ray Imaging	Journal of Environmental Protection and Ecology, Balkan Environmental Association	25,4,1253-1265, 2024	Q4	-	Scopus	https://sustainability.hapres.com/htmls/JSR_1601_Detail.html
16	Mrs. R.J.Vijaya saraswathi	Vijaya Saraswathi R.J.; Krishnakumar V. ; Vasan	Hybrid energy management strategy for ultra-capacitor/battery electric vehicles considering battery degradation	Electrical Engineering & Springer Nature	28 th June 2024	Q2	1.6	SCI	https://link.springer.com/article/10.1007/s00202-024-02533-2



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		Prabhu V. ; Aruna P.							
17	Mr.N. Karthikeyan	N. Sowrirajan · N. Karthikeyan · R. Dharmaprakash · S. Sendil Kumar3	Enhancing electric vehicle charging stations in DC microgrid using KOA–DRN approach	Electrical Engineering & Springer Nature		Q2	1.6	SCI	https://link.springer.com/article/10.1007/s00202-024-02510-9
18	Mr.N. Karthikeyan	Suresh Muthusamy, R. Suresh Kumar, N. Karthikeyan, P. Rajesh	Economic assessment of efficient hydrogen production-based hybrid renewable energy system: OOA-RBFNN approach	Electrical Engineering & Springer Nature		Q2	1.6	SCI	https://link.springer.com/article/10.1007/s00202-024-02510-9
19	Mrs.S.Pushpa	Jayashree kathirvel, Pushpa S, Soni Mohammed, rabinarayan Sethi, Maganthi Syamala	Enhancing Power Quality in solar-wind grid- connected systems through soft computing techniques	International Journal of Power Electronics and Drive Systems(IJPEDS) & IAES	15,4,2493- 24950, December 2024	Q3	-	Scopus	https://ijpeds.iaescore.com/index.php/IJPEDS/article/view/23437/14809



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20	Mrs.S.Pushpa	Pushpa Sreenivasan, Keerthiga Ganesan, Iffath Fawad, Sathya Sureshkumar, Kirubakaran Dhandapani	Leveraging machine Learning for Sustainable Integration of renewable energy generation	Indonesian Journal of Electrical Engineering and Computer Science & IAES	36,3,,1347-1355, December 2024	Q3	-	Scopus	https://ijeecs.iaescore.com/index.php/IJECS/article/view/38071/18781
21	Mrs.S.Amudhapriya	Pushpa Sreenivasan, Lakshmi Dhandapani, Shanthi Natarajan, Arul Doss Adaikalam, Amudhapriya Sivakumar	Improved load frequency control in dual area hybrid renewable power systems utilizing PID controllers optimized by the salp swarm algorithm	International Journal of Power Electronics and Drive Systems(IJPEDS) & IAES	15,3,1711-1718, September 2024	Q3	-	Scopus	https://ijpeds.iaescore.com/index.php/IJPEDS/article/view/23201
22	Dr.Silas Stephen	Anbuchandran S, Arumuga Babu M, Silas Stephen D and Thinakaran M	DC microgrid for EV charging station with EV control by using STSM controllers	Engineering Research Express & IOP Publishing	6,4,1-8,25/11/2024	Q2	-	Scopus	https://iopscience.iop.org/article/10.1088/2631-8695/ad92d9



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23	Dr. P.S.RAMAPRA BA	P S Ramapra, B. Ravindra Babu, N.R. Rejin Paul, V Sharmila, V. Ramesh Babu	Implementing Cloud Computing in Drug Discovery and Telemedicine for Quantitative Structure- Activity Relationship Analysis	International Journal of Electrical and Computer Engineering (IJECE)& Institute of Advanced Engineering and Science (IAES).	15,1,1132- 1141,1/02/ 2025	Q3	-	Scopus	https://ijece.iaescor.com/index.php/IJECE/article/view/34971
24	Dr. P.S.RAMAPRA BA	Dr. J. Venkatesh, Dr. K. Vimalanathan , R. Benschwartz, Ramapra P S, R. Selvakumari.	HYBRID TEXTURE FEATURES BASED DETECTION AND CLASSIFICATION OF SKIN CANCER USING SIAMESE HETEROGENEOUS BOOSTED SOOTY CONVOLUTIONAL NEURAL NETWORK.	Nanotechnology Perceptions & Brookfield Academic Limited.	20,6,3002- 3014, 5/11/2024	Q3	-	Scopus	https://doi.org/10.62441/nano-ntp.vi.3390
25	Dr. P.S.RAMAPRA BA	P., Srikanth, P., , L.K., Sagar, Lalit Kumar, PS Ramapra J.,Narasimharao , Jonnadula, L.T.,	Performance Analysis of Malicious and Residual Node Detection in Manet Using Deep Learning Techniques	Journal of New Materials for Electrochemical Systems & Polytechnique Montréal	28,1-48- 55, January 2025,	Q3	-	Scopus	https://doi.org/10.14447/jnmes.v28i1.a05



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		Ravulapalli, Lakshmi Tulasi							
26	Dr.S.Deepa	S., Deepa, S., J., Arumugam, Jayanthi, R., Purushothaman, Raguraman, D., Nageswari, D. , L., Rajasekhara Babu, L.	Comparative analysis of wind speed prediction: enhancing accuracy using PCA and linear regression vs. GPR, SVR, and RNN	International Journal of Power Electronics and Drive Systems (JPEDS)& Institute of Advanced Engineering and Science	16,1,538- 545, March 2025	Q3	-	Scopus	https://ijpeds.iaesco.re.com/index.php/IJPEDS/article/view/23675/14883
27	Dr.S.Deepa	Deepa S, Niveths Sivaraj, Shalinirajan, San thi Karuppiah, Sudha Rajendran	Enhanced Vegetation Enroachment Detection Along Power Transmission Corridor Using Random Forest Algorithm	Indonesian Journal of Electrical Engineering and Computer Science & Institute of Advanced Engineering and Science (IAES)	38,2,1376- 1382, May 2025	Q3	-	Scopus	http://doi.org/10.11591/ijeecs.v38.i2.p1376-1382



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28	Dr. N. MANOJ KUMAR	Manoj Kumar N a, Sukhi Y b,*, Priscilla Whitin c, Jeyashree Y	Enhanced regulation and optimization techniques for isolated fourth-order 13c resonant converters in solar pv to battery pack conversions	Journal of Energy Storage & Elseiver	116 (2025) 115693, Online March 2025	Q1	1.6	SCI	https://www.sciencedirect.com/science/article/abs/pii/S2352152X25004062
29	Dr. N. MANOJ KUMAR	Manoj Kumar N, Yousef Farhaoui, r Vimala, M.Anandan, M.Aiswarya, A radhika	Innovative Control techniques for Enhancing Signal Quality in Power Applications: Mitigating Electromagnetic Interference	Algorithms & MDPI	18,5	Q2	-	Scopus	https://www.sciencedirect.com/science/article/abs/pii/S2352152X25004062
30	Dr. Devaraj	Rajesh Plm, Francis H Shajin, Devarj], and Raja Rajeswari I	Optimizing electric vehicle charging stations with solar PV integration using reptile search algorithm	Sage Journals & IoS press	January 26, 2025	Q2	-	Scopus	https://doi.org/10.1177/1872498124130697



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31	Mrs.Lakshmi S	Lakshmi, S., Manommani, A.	Optimizing thermal power plant efficiency through washout filter based proportional integral derivative controller	Heliyon & Elsevier	11(4):e42864,28/2/2025	Q1	-	Scopus	DOI: 10.1016/j.heliyon.2025.e42864
32	Mrs.Lakshmi S	Ganapathy G; Anand, Sujatha Jamunab; Jayaprakash M.;Lakshmi S.d;Priya, V. Banu	A blockchain based federated deep learning model for secured data transmission in healthcare Iot networks	Measurement: Sensors & Elsevier		Q2		Scopus	https://doi.org/10.1016/j.measen.2024.101176
33	Mrs.Lakshmi S	Musthafa, A.S., Rajaram, A., Lakshmi, S., ... Kumar, N.M., Sudhakar, M.	CONNECTIVITY IN BLOOM PROMOTING BIODIVERSITY THROUGH ECO-FRIENDLY WIRELESS NETWORKS	Journal of Environmental Protection and Ecology & Scibulcom Ltd	25(4), pp. 1150–1159	Q4		Scopus	https://www.scopus.com/authid/detail.uri?authorId=57216491456



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34	Mr.Ponkumar G	A.Chandrasekhar,Deviprasad,D Sudha,P.Vidhus hini,G Ponkumar,T Ganesan	Real-time monitoring and optimisation system For advanced oxidation processes using smart Sensors and data analytics	Oxidation Communication & Scibulcom Ltd	48,1,317-328	Q3	26.4.2025	Scopus	https://www.scopus.com/authid/detail.uri?authorId=58511904600
35	Mrs.Shobana D	Subbulakshmy Ramamurthi, Velmurugan palani, Shobana D, Manivannan S, Rajalakshmi K, Jemila Percy A	Insights into electromagnetic Interference in Non-Isolated Dc to DC Converters A Contemporary Analysis	Tuijin Jishu/Journal of Propulsion Technology & Journal of Propulsion technology	46,2, 2025, 775-783	Q3	-	Scopus	https://propulsionejournal.com/index.php/journal/article/view/9405/5753
36	Mrs.Shobana D	Shobana Devendiren ,Dr. Samuel RajeshBabu R, Subbulakshmy Ramamurthi	Buck-Boost Converter Fed Nine Level Cascaded H Bridge Inverter	International Journal of Power Electronics and Drive System (IJPEDS) & IAES	16,2,June 2025	Q3		Scopus	http://doi.org/10.11591/ijpeds.v16.i2.p1107-1115



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37	Dr. A Sivakumar	Saritha Kandukuri1* Ramesh Guguloth2, A. Sivakumar 3, I. Shivasankkar4, Ananthan Nagarajan5, N. Janaki6	An effective power quality enhancement system for integrated photovoltaic cells utilizing cascaded ANFIS in a unified power quality conditioner	Future Technology & Future Publishing LLC.	August 2025 Volume 04 Issue 03 Pages 171-181	Q3	August 2025	Scopus	https://doi.org/10.55670/fpl.futech.4.3.16
38	Mr. Diankaran K P	Jayasri, Nemala; Vidyulatha, Pellakuri; Saravanan, A.; Muthevi, Anil Kumar; Dinakaran, K. P.; Medikondurao, Nageswara Rao	Quantum computing Approaches to Autonomous Mobile Robots and multimachine systems: A Perspective on Design automation	Journal of nano and Electronic Physics & Sumy State University.	Vol 17, Issue 3, p03020-1 to 03020-6	Q3	July 2025	Scopus	10.21272/jnep.17(3).03020



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39	Mr.Diankaran K P	Jayasri, Nemala; Vidyulatha, Pellakuri; Saravanan, A.; Muthevi, Anil Kumar; Dinakaran, K. P.; Medikonda, Nageswara Rao	Dynamics and Optimization of Physical Processes in Information Systems Using Autonomous Mobile Robots and Multi-Agent Systems.	Journal of nano and Electronic Physics & Sumy State University.	Vol 17, Issue 3, p03025-1 to 03025-6	Q3	July 2025	Scopus	10.21272/jnep.17(3).03020
40	Mr.Diankaran K P	K. Ravi Prakash Babu B. Raghukumar M. Lakshmu Naidu K.P. Dinakaran	Enhanced Vehicle Transmission Shaft Condition Monitoring via IoT-Integrated Vibration Analysis: A Focus on Safety and System Reliability	International Journal of vehicle structure and Systems & MechAero Foundation for Technical Research & Education Excellence (MAFTREE).	Vol17, 2,				https://doi.org/doi:10.4273/ijvss.17.2.22