



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

List of Articles published by the Faculty in the Academic year 2024-2025

Sl.No	Tite of the paper	Name of the Authors	Journal Title	Year	ISSN	Link to article/paper /abstract of the article
1	Experimental Analysis of Sensor (Solar PV) Based Variable Frequency Multicarrier PWM Techniques for Enhanced Power Quality in Bioengineering Systems	R.K.Padmashini D.Lakshmi	Case Studies in Thermal Engineering	Feb 2025		https://doi.org/10.1016/j.csite.2025.105897
2	Investigations on smart multilevel inverters for freq converters in onboard ships – Acase study	Dr.T.SASILATHA	Journal of Engineering Science and Technology	Feb 2024	Issue on ICIT2022 Vol. 19, No. 2 (2024) 205 - 214	https://jestec.taylors.edu.my/Special%20Issue%20on%20ICIT2022_3/ICIT2022_3_22.pdf
3	A Case Study on Underwater Structural Data Processing Towards Digital Recreation of Poompuhar - Heritage Landmark in South India	Dr.T.SASILATHA	Journal of Engineering Science and Technology	Feb 2024	Special Issue on ICIT2022 Vol. 19, No. 2 (2024) 89 - 96	https://jestec.taylors.edu.my/Special%20Issue%20on%20ICIT2022_3/ICIT2022_3_10.pdf
4	Revolutionizing agricultural productivity with automated early leaf disease detection	Dr.T.SASILATHA	Environment Development and	July 2024	1573-2975	https://link.springer.com/article/10.1007/s10668-024-05228-7

	system for smart agriculture applications using IoT platform		Sustainability			
5	Industrial IoT Sensor Networks and Cloud Analytics for Monitoring Equipment Insights and Operational Data	Dr.S.Priya	IEEE Explore	June 2024	979-8-3503-5306-8/24/\$31.00 ©2024 IEEE	https://ieeexplore.ieee.org/document/10543916
6	IoT Data and Random Forest Algorithm for Optimized Crop Rotation Planning for Sustainable Agriculture	Dr.S.Priya	IEEE Explore	June 2024	979-8-3503-5306-8/24/\$31.00 ©2024 IEEE	IoT Data and Random Forest Algorithm for Optimized Crop Rotation Planning for Sustainable Agriculture IEEE Conference Publication
7	Next-Gen Telehealth Ecosystems Using IoT for Virtual Consultations and Support	Dr.S.Priya	IEEE Explore	June 2024	979-8-3503-5306-8	https://ieeexplore.ieee.org/document/10544258
8	Smart Ports Solutions for Cargo Container Tracking and Vessel Traffic Counting Systems using IoT and Cloud Computing	Dr.S.Priya	IEEE Explore	June 2024	979-8-3503-5306-8	https://ieeexplore.ieee.org/document/10544127
9	Securing Chemical Processing Plants Using Isolation Forest Algorithm and IoT Sensors for Leakage Production	Dr.S.Priya	IEEE Explore	June 2024	979-8-3503-5929-9	https://ieeexplore.ieee.org/document/10544458
10	AI and ML in Finance- Revolutionizing the Future of Banking and Investments	Dr.S.Priya	IEEE Explore	September 2024	979-8-3503-7929-7	https://ieeexplore.ieee.org/document/10668910

11	Novel Battery Management with Fuzzy Tuned Low Voltage Chopper and Machine Learning Controlled Drive for Electric Vehicle Battery Management: A Pathway Towards SDG	Dr.S.Priya	Journal of Applied Data Sciences	September 2024	ISSN 2723-6471	https://bright-journal.org/Journal/index.php/JADS/article/view/236
12	Lower Limb Prosthetics using Optimized Deep Learning Model – a Pathway Towards SDG Good Health and Well Being	Dr.S.Priya	Journal of Applied Data Sciences	September 2024	ISSN 2723-6471	https://bright-journal.org/Journal/index.php/JADS/article/view/239
13	Bionic Hand Movements Recognition: A Unified Framework with Attention-Guided ROI Identification and the Bionic Fusion Net Approach	Dr.S.Priya	International Journal of Advanced Computer Science and Applications(IJACSA)	September 2024	ISSN : 2156-5570 (Online)	https://thesai.org/Publications/ViewPaper?Volume=15&Issue=6&Code=IJACSA&SerialNo=102
14	Adaptive Thermal Clothing with IoT and Random Forest Regression for Dynamic Outdoor Comfort	V. Sridevi	IEEE Explore	July 2024	979-8-3503-7156-7	https://ieeexplore.ieee.org/document/10582111
15	Augmented Reality Shopping and IoT-Enabled Virtual Try-On with Cloud Services for Interactive Product Displays	V. Sridevi	IEEE Explore	June 2024	979-8-3503-5306-8	https://ieeexplore.ieee.org/document/10543476
16	Cloud-Integrated Clean Fuel Generation for Solar Hydrogen	V. Sridevi	IEEE Explore	June 2024	979-8-3503-5929-	https://ieeexplore.ieee.org/document/10544659

	Production with Wireless Sensor Networks				9	
17	Real-time Glass Recycling Quality Assurance and Contamination Reduction with IoT and Random Forest algorithm	V. Sridevi	IEEE Explore	June 2024	979-8-3503-5929-9	https://ieeexplore.ieee.org/document/10544632
18	Improved load frequency control in dual-area hybrid renewable power systems utilizing PID controllers optimized by the salp swarm algorithm	Dr.D.Lakshmi	International Journal of Power Electronics and Drive Systems (IJPEDS)	Sep 2024	Vol. 15, No. 3,	http://doi.org/10.11591/ijpeds.v15.i3.pp1711-1718
19	Lion swarm optimization for grid connected PV system with improved SEPIC	Dr.D.Lakshmi	International Journal of Applied Power Engineering (IJAPE)	September 2024,	Vol. 13, No. 3, pp. 603~615	http://doi.org/10.11591/ijape.v13.i3.pp603-615
20	Improvement of Air Compressor Cooling with Intercooler Fine Pruning	Kirubadurai. B, Jegadeeswari. G	Journal of Engineering and Sustainable Development	July 2024	2520-0925	https://jeasd.uomustansiriyah.edu.iq/index.php/jeasd/article/view/2217
21	Revolutionizing agricultural productivity with automated early leaf disease detection system for smart agriculture applications using IoT platform	R.Karthickmanoj	Environment Development and Sustainability	July 2024	1573-2975	https://link.springer.com/article/10.1007/s10668-024-05228-7
22	Integrated RES With Intelligent	R.K., Padmashini and	Journal of Innovation	Oct-2024	2805-5179	https://www.researchgate.net/publication/385369861_Inte

	MPPT For Efficient Power Generation & Wireless Transmission for PV Applications	D., Lakshmi and B.Satish, Kumar and J.N., Rajesh Kumar	and Technology			grated RES With Intelligent MPPT For Efficient Power Generation Wireless Transmission for PV Applications
23	Adaptive Solar Power Generation Forecasting using Enhanced Hybrid Function Networks with Weather Modulation	Dr.R.K.Padmashini	INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH	June 2024	DOI: 10.20508/ijrer.v14i2.14551.g8904	https://www.ijrer.ijrer.org/index.php/ijrer/article/view/14551
24	ANALYSIS OF VECTOR CONTROLLED 3 PHASE INDUCTION MOTOR FOR EV APPLICATIONS	Dr.R.K.Padmashini	Journal of engineering science technology	Apr 2024	Special Issue on ICIT2022 Vol. 19, No. 2 (2024) 215 - 224	https://jestec.taylors.edu.my/Special%20Issue%20on%20ICIT2022_3/ICIT2022_3_23.pdf