



Department of Electrical and Electronics Engineering

Research Publications for the Academic Year 2024-25

SI No	Faculty Name	Paper Title	Month Year	Journal / Conference Title	Volume	Issue	Page start	Page end	Source (Scopus / WoS)	Publication Type (Mention Journal / Conference)	DOI
1	Dr. Sujitha S	Efficient Net Driven Smart Detection of Dust Accumulation on Solar Panels	July, 2025	Journal of Innovative Image Processing	7	2	504	518	Scopus	Journal	https://doi.org/10.36548/jiip.2025.2.011
2	Dr.Gunapriya B	Deep learning model for hair artifact removal and Mpox skin lesion analysis and detection	July, 2025	Scientific Reports	15	21212	1	18	Scopus/WoS	Journal	https://doi.org/10.1038/s41598-025-05324-2
3	Dr.Arangarajan Vinayagam	Bayesian Optimized of CNN-M-LSTM for Thermal Comfort Prediction and Load Forecasting in Commercial Buildings	June, 2025	Designs	9	3	1	24	Scopus/WoS	Journal	https://doi.org/10.3390/designs9030069
4	Dr.Arangarajan Vinayagam Dr. R Mohan Das	Discrimination of High Impedance Fault in Microgrids: A Rule-Based Ensemble Approach with Supervised Data Discretization	June, 2025	Processes	13	6	1	28	Scopus/WoS	Journal	https://doi.org/10.3390/pr13061751
5	Sakthivel Aruchamy	Energy management in alternating current microgrids with renewable energy sources integration using giant trevally optimizer-self-adaptive physics-informed neural networks	April, 2025	Journal of Renewable and Sustainable Energy	17	24105	1	17	Scopus/WoS	Journal	https://doi.org/10.1063/5.0249419
6	Dr. Agalya V	Blockchain-based secure data communication with an optimal energy trading model in the IoEV system	April, 2025	Peer-to-Peer Networking and Applications	18	3	1	24	Scopus/WoS	Journal	https://doi.org/10.1107/s12083-025-01919-8
7	Soumya K V	Optimization of Quantum Dilated Convolutional Neural Networks: Image Recognition With Quantum Computing	April, 2025	Internet Technology Letters	8	3	1	6	Scopus/WoS	Journal	https://doi.org/10.1002/itl2.70027
8	Dr. Vinoth Kumar.K	The Physical Parameters of EDFA and SOA optical Amplifiers and Bit Sequence Variations Based Optical Pulse Generators impact on the Performance of Soliton Transmission Systems	January, 2025	Journal of Optical Communications	45	s1	15	20	Scopus	Journal	https://doi.org/10.1515/joc-2019-0156
9	Dr.Arangarajan Vinayagam	Discrimination of high impedance fault in micrgrid power network using semi-supervised machine learning algorithm	January, 2025	Ain Shams Engineering Journal	16	1	1	19	WoS	Journal	https://doi.org/10.1016/j.asej.2024.103187
10	Sangeetha C N	Design and Analysis of a High Sensitive Terahertz Biosensor for Early Cancer Detection Using Silver Surface Plasmon Resonance Mete surface and Elestic Reflection starting Murmuration Equivariant Quantum Decision Networks	January, 2025	ECS Journal of Solid State Science and Technology	14	1	1	20	Scopus/WoS	Journal	https://doi.org/10.1149/2162-8777/ada4da
11	Dr. V. Agalya	Optimal dispatching of electric vehicles based on optimized deep learning in IoT	December, 2024	Journal of Combinatorial Optimization	49	1	1	28	Scopus/WoS	Journal	https://doi.org/10.1007/s10878-024-01251-6
12	Dr. R.Mohan Das	Fore casting hourly short term solar photo voltaic power using machine learning models	December, 2024	International Journal of Power Electronics and Drive Systems	15	4	2553	2569	Scopus	Journal	http://doi.org/10.11591/ijpeds.v15.i4.pp2553-2569
13	Dr. Sujitha S	Design and performance obse rvation of U-shaped Quadpot multiband operated MIMO antenna structure for 5G and WLAN applications using FR4 substrate with high isolation	October, 2024	Waves in Random and Complex Media	NA	NA	1	22	NA	Journal	https://doi.org/10.1080/17455030.2024.2415931
14	Dr. Karthika M	Modified Arithmetic optimization algorithm based torque ripple minimization for a sensorless BLDC motor	October, 2024	International Journal of Electronics	112	9	1	15	Scopus/WoS	Journal	https://doi.org/10.1080/00207217.2024.2408789
15	Ms. Kavitha C N	Solar PV Fed DC Link Voltage for Fuzzy Logic Sliding Mode Controller Based UPQC to Improve the Dynamic Performance in Power Grid	August, 2024	Journal of Applied Science and Engineering	28	5	969	978	Scopus	Journal	https://doi.org/10.6180/jase.202505_28(5).0006
16	Dr. Sujitha S	Optimized Frequency Regulation in Isolated Renewable Microgrids with Solar PV Generation using Grasshopper Optimization	July, 2025	7th International Conference on Inventive Material Science and Applications (ICIMA)	7		669	674	Scopus	Conference	https://doi.org/10.1109/ICIMA64861.2025.11074039
17	Dr. Sujitha S	TriRoute: Low-Latency 1x3 Router for Optimized Data Distribution	July, 2025	7th International Conference on Inventive Material Science and Applications (ICIMA)	7		158	162	Scopus	Conference	https://doi.org/10.1109/ICIMA64861.2025.11073997
18	Soumya K V	Electric Vehicle Battery Management for Sustainable Farming	July, 2025	1st International Conference on Sustainability and Technological Advancements in Engineering Domain (SUSTAINED)	1		1013	1016	Scopus	Conference	https://doi.org/10.1109/SUSTAINED63638.2024.11073991

19	Dr. Karthika M	Design and Implementation of a Battery Management System with Charge Monitoring and Fire Protection for Electric Vehicles	Jun-25	International Conference on Frontier Technologies and Solutions (ICFTS)			1	7	Scopus	Conference	https://doi.org/10.1109/ICFTS62006.2025.11031613
20	Sangeetha CN	An Optimized Technique for Feature Extraction and EEG Signal Processing using MATLAB	May-25	5th International Conference on Trends in Material Science and Inventive Materials (ICTMIM)	5		1639	1643	Scopus	Conference	https://doi.org/10.1109/ICTMIM65579.2025.10988239
21	Dr. Sujitha S	AI-Optimized VLSI Amplifier for Real-Time Vehicle-to-Vehicle Data Exchange in Autonomous Vehicles	May-25	International Conference on Inventive Computation Technologies (ICICT)			1928	1931	Scopus	Conference	https://doi.org/10.1109/ICICT64420.2025.11005365
22	Vinoth Kumar K	LSTM-Based Deep Learning Long Term Electric Demand Prediction for Karnataka	May-25	International Conference on Data Science, Agents & Artificial Intelligence (ICDSAAI)			1	6	Scopus	Conference	https://doi.org/10.1109/ICDSAAI65575.2025.11011862
23	Surat Pyari Atti	Humanoid Robot	May-25	11th Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering (UPCON)	11		1	4	Scopus	Conference	https://doi.org/10.1109/UPCON62832.2024.10982951
24	Dr. Gunapriya B	Design and Implementation of Real Time Wireless Sensors Network Protocol with Relay Nodes and Localization Methods for Efficient System Performance	Apr-25	International Conference on Intelligent Control, Computing and Communications (IC3)			763	769	Scopus	Conference	https://doi.org/10.1109/IC363308.2025.10956427
25	Surat Pyari Atti	Fog Vision For Roads And Rails	Apr-25	IEEE International Students' Conference on Electrical, Electronics and Computer Science (SCEECS)			1	4	Scopus	Conference	https://doi.org/10.1109/SCEECS64059.2025.10940307
26	Satishkumar D	Intelligent Plant Disease Diagnosis using Deep Neural Networks	Mar-25	International Conference on Advances and Applications of Artificial Intelligence and Machine Learning	1		419	428	Scopus	Conference	https://doi.org/10.1007/978-981-97-9507-9_31
27	Dr. Sujitha S	Therapeutic innovative rehabilitation Tools: Treadmill and pedal machines for children with physical impairments	Mar-25	4th International Conference on Soft Computing for Security Applications (ICSCSA)	4		358	360	Scopus	Conference	https://doi.org/10.1109/ICSCSA64454.2024.00063
28	Anitha.A	Smart gloves for communication: A survey on Technology for the hearing and speech impaired	Mar-25	4th International Conference on Sentiment Analysis and Deep Learning (ICSADL)	4		424	429	Scopus	Conference	https://doi.org/10.1109/ICSADL65848.2025.10933438
29	Satishkumar D	Speed control of PMSM using Fuzzy logic control with PSO technique	Mar-25	International Conference on Recent Innovation in Smart and Sustainable Technology (ICRISST)			1	6	Scopus	Conference	https://doi.org/10.1109/ICRISST59181.2024.10921778
30	Mausri Bhuyan Vinoth Kumar K Sangeetha CN	Object oriented RFID with machine learning and IoT	Mar-25	International Conference on Recent Innovation in Smart and Sustainable Technology (ICRISST)			1	4	Scopus	Conference	https://doi.org/10.1109/ICRISST59181.2024.10922027
31	R.Mohan Das	Hybrid Electric Vehicle: Energy Optimization and Emission Reduction for Sustainable Transportation	Mar-25	2nd International Conference on Advances in Computation, Communication and Information Technology (ICAICCT)	2		744	748	Scopus	Conference	https://doi.org/10.1109/ICAICCT64383.2024.10912180
32	Vinoth Kumar K	A certain analysis of solar home based lighting system for smart city designed for sustainable development	Mar-25	International Conference on Recent Innovation in Smart and Sustainable Technology (ICRISST)			1	4	Scopus	Conference	https://doi.org/10.1109/ICMSCI62561.2025.10894550
33	Dr. Sujitha S	Smart Pavement Repair Bot with IoT and Machine Learning Integration	Feb-25	International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI)			368	372	Scopus	Conference	https://doi.org/10.1109/ICMSCI62561.2025.10894097
34	Dr. Sujitha S	AI-Driven Pavement Repair BoT with IOT connectivity	Feb-25	4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS)	4		120	123	Scopus	Conference	https://doi.org/10.1109/ICUIS64676.2024.10867156

35	Dr. Sujitha S	A novel Swam Robotics System for Navigating and Collective decision making in Dynamic Environments	Feb-25	4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS)	4		1850	1853	Scopus	Conference	https://doi.org/10.1109/ICUIS64676.2024.10867086
36	Vinoth Kumar K	A certain investigations of Gesture based Controls System in Infotainment of hybrid Car using Internet of things	Feb-25	International Conference on Multi Agent Systems for Collaborative Intelligence (ICMSCI)			594	598	Scopus	Conference	https://doi.org/10.1109/ICMSCI62561.2025.10894550
37	Karthika M	Design and Implementation of Dual Function System for inventory Management and Safety : IOT based Monitoring and Gas Detection	Feb-25	International Conference on Multi Agent Systems for Collaborative Intelligence (ICMSCI)			400	407	Scopus	Conference	https://doi.org/10.1109/ICMSCI62561.2025.10894350
38	Vinoth Kumar K	A review investigation on current trends in smart unsighted cane technology	Feb-25	9th International Conference on Communication and Electronics Systems (ICCES)			1417	1420	Scopus	Conference	https://doi.org/10.1109/ICCES63552.2024.10859362
39	Vinoth Kumar.K	Analysis of Gesture based Control System in infotainment of Hybrid car using Internet of Things	Feb-25	6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI)	6		286	292	Scopus	Conference	https://doi.org/10.1109/ICMCSI64620.2025.10883553
40	A.S.Anitha Nair	Neuronet: Convergence of Brain-Computer Interfacing and Network Technologies	Jan-25	International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS)			1504	1509	Scopus	Conference	https://doi.org/10.1109/ICICNIS64247.2024.10823315
41	Satish Kumar D	Optimized thermal control of EV battery systems with fuzzy logic and PSO on Arduino Uno	Dec-24	3rd International Conference for Advancement in Technology (ICONAT)	3		1	6	Scopus	Conference	https://doi.org/10.1109/ICONAT61936.2024.10774666
42	Vinoth Kumar K	An analysis of IOT based smart garbage level of detection system	Dec-24	8th International Conference on Electronics, Communication and Aerospace Technology (ICECA)	8		457	471	Scopus	Conference	https://doi.org/10.1109/ICECA63461.2024.10800952
43	Kavitha Chenna Reddy Dr. S.Sujitha	Agri Smart Robo Spider for Spraying and Weed Cutting	Dec-24	5th International Conference on Data Intelligence and Cognitive Informatics (ICDICI)	5		369	372	Scopus	Conference	https://doi.org/10.1109/ICDICI62993.2024.10810980
44	A.S.Anitha Nair	Minimization of Control Error and Frequency variation in Two Area based Load Frequency Control using GA tuned Fractional PI D Controller by reducing integral Absolute based error	Nov-24	International Conference on Intelligent Computing and Sustainable Innovations in Technology (IC-SIT)			1	5	Scopus	Conference	https://doi.org/10.1109/IC-SIT63503.2024.10862535
45	Mausri Bhuyan	Frequency analysis in a combined hybrid microgrid tuned by DBOA algorithm	Nov-24	IEEE Third International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	3		927	932	Scopus	Conference	https://doi.org/10.1109/ICPEICES62430.2024.10719105
46	Mausri Bhuyan	Solution of economic load dispatch for dealing with solar power uncertainty using pelican optimization algorithm	Nov-24	IEEE Third International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)	3		1128	1132	Scopus	Conference	https://doi.org/10.1109/ICPEICES62430.2024.10719195
47	Surat Pyari Atti	An innovative method for improving lifetime ratio in a wireless sensor network for EV vehicles using improved cybernated clustering scheme	Oct-24	2nd World Conference on Communication & Computing (WCONF)	2		1	6	Scopus	Conference	https://doi.org/10.1109/WCONF61366.2024.10691913
48	Dr. Sujitha S	Electromagnetic Compatibility in Wireless EV Charging System	Oct-24	Second International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI)	2		687	690	Scopus	Conference	https://doi.org/10.1109/ICoICI62503.2024.10696865
49	Dr. Sujitha S	Rescue Rover: All- Terrain Emergency Response and exploration Vehicle	Oct-24	8th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)	8		333	335	Scopus	Conference	https://doi.org/10.1109/I-SMAC61858.2024.10714744
50	Dr. Sujitha S	Design of Electric Vehicle with Self- Balance Approach using Gyroscopic Effect and Autonomous Systems	Sep-24	8th International Conference on Inventive Systems and Control (ICISC)	8		540	543	Scopus	Conference	https://doi.org/10.1109/ICISC62624.2024.00095

51	Dr. Sujitha S	Prototyping a Smart Medication Management System with Machine Learning-based Dosage Recommendations	Sep-24	5th International Conference on Smart Electronics and Communication (ICOSEC)	5		1402	1406	Scopus	Conference	https://doi.org/10.1109/ICOSEC61587.2024.10722123
52	Dr. Sujitha S	Implementation of Intelligent Farm Guards: Utilizing Bidirectional Monitoring for Motor Efficiency	Sep-24	8th International Conference on Inventive Systems and Control (ICISC)	8		646	649	Scopus	Conference	https://doi.org/10.1109/ICISC62624.2024.00113
53	Dr. R.Mohan Das Anitha Nair A.S	Explosive metal detection using sensors and microcontroller	Aug-24	2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS)	2		269	273	Scopus	Conference	https://doi.org/10.1109/ICSCSS60660.2024.10625134
54	Dr. Sujitha S	Therapeutic Treadmill and Foot Pedal for Physically Challenged Children	Aug-24	Second International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI)	2		1547	1550	Scopus	Conference	https://doi.org/10.1109/ICoICI62503.2024.10696163
55	Gunapriya Balan	Harnessing The Power of Artificial Intelligence for Disaster Response and Crisis Management	24-Aug	International Conference on Communication, Computer Sciences and Engineering (IC3SE)					Scopus	Conference	10.1109/IC3SE62002.2024.10593506
56	Kavitha Chenna Reddy, Dr. S.Sujitha	AI-Based Symptom Diagnosis with Integrated HER (Electronic Health Records) using Wearable Health Devices and IoT	May-25	Intelligent and Sustainable Power and Energy Systems			272	278	Scopus	Book Chapter	10.1201/9781003654469-31
57	B. Gunapriya	Search and Rescue-Based Sparse Auto-Encoder for Detecting Heart Disease in IoT Healthcare Environment	Feb-25	Artificial Intelligence and Cybersecurity in Healthcare			289	309	Scopus	Book Chapter	https://doi.org/10.1002/9781394229826.ch12
58	B. Gunapriya	Standards for Internet of Things (IoT)	29-01-2025	IoT for Smart Grid: Revolutionizing Electrical Engineering			335	361	Scopus	Book Chapter	https://doi.org/10.1002/9781394279401.ch16