

Department of Electrical and Electronics Engineering
Publications for the Academic Year 2021-2022

S.No	Faculty Name	Paper Title	Month Year	Journal Title	Volume	Issue	Page start	Page end	Indexing	Publication Type	DOI
1	Dr. Vinoth Kumar K	A Novel Sensitive Photonic Crystal Fiber based Voltage Sensor Filled with Nematic Liquid Crystal	February 2022	IEEE Transactions on Nanotechnology	21	-	90	99	Scopus & SCI	Journal	https://doi.org/10.1109/TNANO.2022.3149511
2	Dr. Vinoth Kumar K	Weather Forecasting for Renewable Energy System: A Review	January 2022	Archives of Computational Methods in Engineering	29	5	2875	2891	Scopus & SCI	Journal	https://doi.org/10.1007/s11831-021-09695-3
3	Dr. Gunapriya B Dr. Singaravelan A	AI and ML Powered IoT Applications for Energy Management in Electric Vehicles	June 2022	Wireless Personal Communications	-	-	1	17	Scopus & SCI	Journal	https://doi.org/10.1007/s11277-022-09789-6
4	Dr. Arangarajan V	A KNN based random subspace ensemble classifier for detection and discrimination of high impedance fault in PV integrated power network	January 2022	Measurement: Journal of the International Measurement Confederation	187	1103 33	1	20	Scopus & SCI	Journal	https://doi.org/10.1016/j.measurement.2021.110333

5	Dr. Arangarajan V	A Voting Approach of Ensemble Classifier for Detection of Power Quality in Isolated PV Microgrid	June 2022	IETE Journal of Research	-	-	1	17	Scopus & SCI	Journal	https://doi.org/10.1080/03772063.2022.2083706
6	Dr. Arangarajan V	Heterogeneous learning method of ensemble classifiers for identification and classification of power quality events and fault transients in wind power integrated microgrid	September 2022	Sustainable Energy, Grids and Networks	31	-	1	24	Scopus & SCI	Journal	https://doi.org/10.1016/j.segan.2022.100752
7	Dr. Arangarajan V Dr. Mohan Das R	A random subspace ensemble classification model for discrimination of power quality events in solar PV microgrid power network	January 2022	Plos One	-	-	1	17	Scopus & SCI	Journal	https://doi.org/10.1371/journal.pone.0262570
8	Dr. Gunapriya B Dr. Singaravelan A	Performance analysis and enhancement of brain emotion-based intelligent controller and its impact on PMBLDC motor drive for electric vehicle applications	January 2022	Energy Sources, Part A: Recovery, Utilization and Environmental Effects	-	-	1	25	Scopus & SCI	Journal	https://doi.org/10.1080/15567036.2022.2027578
9	Ms. Karthika M	A comparative analysis of torque ripple reduction techniques for sensor BLDC drive	March 2022	International Journal of Power Electronics and Drive Systems	13	1	122	131	Scopus & SCI	Journal	http://doi.org/10.11591/ijpeds.v13.i1.pp122-131

10	Dr. Mohan Das R Mr. Vinod Kumar S	Development of performance characterization in VSI-fed induction motor drives using random PWM	June 2022	International Journal of Power Electronics and Drive Systems	13	2	783	791	Scopus	Journal	http://doi.org/10.11591/ijpeds.v13.i2.pp783-791
11	Dr. Arangarajan V	Recurrent network-based power flow solution for voltage stability assessment and improvement with distributed energy sources	November 2021	Applied Energy	302	1175 24	1	21	Scopus & SCI	Journal	https://doi.org/10.1016/j.apenergy.2021.117524
12	Dr. Arangarajan V	Detection and classification of multiple power quality disturbances in Microgrid network using probabilistic based intelligent classifier	October 2021	Sustainable Energy Technologies and Assessments	47	1014 70	1	13	Scopus & SCI	Journal	https://doi.org/10.1016/j.seta.2021.101470
13	Dr. Arangarajan V	An ensemble approach of classification model for detection and classification of power quality disturbances in PV integrated microgrid network	July 2021	Applied Soft Computing	106	1072 94	1	16	Scopus & SCI	Journal	https://doi.org/10.1016/j.asoc.2021.107294
14	Dr. Agalya V	CPRO: Competitive Poor and Rich Optimizer-Enabled Deep Learning Model and Holoentropy Weighted-Power K-Means Clustering for Brain Tumor	April 2022	International Journal of Pattern Recognition and Artificial Intelligence	36	4	1	19	Scopus & SCI	Journal	https://doi.org/10.1142/S0218001422520085

		Classification Using MRI									
15	Mr. Satish Kumar D	Coordinated power management and control of renewable energy sources based smart grid	April 2022	International Journal of Emerging Electric Power Systems	23	2	261	276	Scopus & SCI	Journal	https://doi.org/10.1515/ijeeps-2021-0113
16	Dr. Prabhakaran N	Analysis and design of fuzzy-based manoeuvring model for mid-vehicle collision avoidance system	August 2021	Journal of Ambient Intelligence and Humanized Computing	12	10	9909	9922	Scopus & SCI	Journal	https://doi.org/10.1007/s12652-020-02737-x
17	Dr. Prabhakaran N	Novel Collision Detection and Avoidance System for Midvehicle Using Offset-Based Curvilinear Motion	October 2021	Wireless Personal Communications	119	3	1	22	Scopus & SCI	Journal	https://doi.org/10.1007/s11277-021-08333-2
18	Dr. Mohan Das R	Design of a novel wireless power transfer technique for portable device	June 2022	Materials Today Proceedings	65	1	242	249	Scopus	Journal	https://doi.org/10.1016/j.matpr.2022.06.126
19	Dr. Mohan Das R Mr. Vinod Kumar S	An improved random SVPWM for zero voltage switching three phase inverters	June 2022	Materials Today Proceedings	65	1	285	292	Scopus	Journal	https://doi.org/10.1016/j.matpr.2022.06.169
20	Dr. Mohan Das R	A novel symmetrical three level boost DC-AC converter for electric vehicles with reduced switch counts	June 2022	Materials Today Proceedings	65	1	235	241	Scopus	Journal	https://doi.org/10.1016/j.matpr.2022.06.125

21	Dr. Arangarajan Vinayagam	High Hybrid Power Converter Performance Using Modern-Optimization-Methods-Based PWM Strategy	June 2022	Electronics (Switzerland)	11	13	1	16	Scopus & WOS	Journal	https://doi.org/10.3390/electronics11132019
22	Dr. Arangarajan Vinayagam	Modern Optimal Controllers for Hybrid Active Power Filter to Minimize Harmonic Distortion	June 2022	Electronics (Switzerland)	11	9	1	17	Scopus & WOS	Journal	https://doi.org/10.3390/electronics11091453
23	Dr. Sujitha S Dr. Vinoth Kumar K	An implementation of soft computing approach of smart control for induction motor using ANFIS	February 2022	2022 4th International Conference on Smart Systems and Inventive Technology (ICSSIT)	-	-	1	4	Scopus	Conference	https://doi.org/10.1109/ICSSIT53264.2022.9716455
24	Dr. Vinoth Kumar K	Analysis of parameter estimation of an electric bicycle using IoT with data analytics technique	February 2022	4th International Conference On Smart Systems and Inventive Technology ICSSIT 2022	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/ICSSIT53264.2022.9716307
25	Dr. Vinoth Kumar K Dr. Gunapriya B	An IoT based data analytics for electric bicycle using OpenModelica simulation tool	March 2022	2022 International Conference for Advancement in Technology ICONAT 2022	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/ICONAT53423.2022.9725996
26	Dr. Vinoth Kumar K Dr. Gunapriya B	Renewable energy based efficient portable DC refrigerator for rural electrification and convenience - An Overview	March 2022	International Conference on Artificial Intelligence and Smart Systems ICAIS 2022	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/ICAIS53314.2022.9742945

27	Dr. Vinoth Kumar K Dr. Gunapriya B	A review of Arduino based hand gesture-controlled robot using IoT	March 2022	International Conference on Artificial Intelligence and Smart Systems ICAIS 2022	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/ICAIS53314.2022.9741829
28	Dr. Vinoth Kumar K Mr. Muniprakash T	A Review on Optimization Techniques of Charging the Battery in EV	March 2022	International Conference on Artificial Intelligence and Smart Systems	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/ICAIS53314.2022.9743126
29	Dr. Vinoth Kumar K Mr. Muniprakash T	A review on optimization techniques of battery charging in electric vehicles	April 2022	2022 2nd International Conference on Artificial Intelligence and Signal Processing, AISP 2022	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/AISP53593.2022.9760545
30	Dr Singaravelan A Dr. Gunapriya B	High-Performance ANFIS-Based Controller for BLDC Motor Drive	April 2022	International Conference on Ubiquitous Computing and Intelligent Information Systems - Smart Innovation, Systems and Technologies	243	-	435	449	Scopus	Conference	https://doi.org/10.1007/978-981-16-3675-2_33
31	Ms. Kavitha Chenna Reddy Dr. Vinoth Kumar K	A review of solar powered electric Bi-hybrid vehicle compared with IC Engine Vehicles using graph analytics with AI	February 2022	4th International Conference on Smart Systems and Inventive Technology ICSSIT 2022	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/ICSSIT53264.2022.9716463

32	Ms. Kavitha Chenna Reddy Dr. Vinoth Kumar K	Artificial Intelligence Based Solar Powered Electric Bi-hybrid Vehicle Compared with IC Engine Vehicles Using Graph Analytics	March 2022	2022 International Conference for Advancement in Technology ICONAT 2022	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/ICONAT53423.2022.9725853
33	Dr. Sujitha S Dr. Vinoth Kumar K	Experimental Setup of Smart E-Vehicle Charging Station using IOT Technology	December 2021	2021 IEEE International Conference on Mobile Networks and Wireless Communications, ICMNWC 2021	-	-	1	4	Scopus	Conference	https://doi.org/10.1109/ICMNWC52512.2021.9688523
34	Dr. Vinoth Kumar K Dr. Sujitha S	Execution of smart electric vehicle charging station driven by RE technology using soft computing approach	November 2021	IEEE International Conference on Innovations in Power and Advanced Computing Technologies	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/i-PACT52855.2021.9696545
35	Dr. Vinoth Kumar K	A Review on Triboelectric Nanogenerators (TENGs) using Internet of Things	December 2021	2021 International Conference on Forensics, Analytics, Big Data, Security (FABS)	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/FABS52071.2021.9702612
36	Dr. Vinoth Kumar K	Implementation of Smart Electric Vehicle Charging Station Driven Using Experimental Investigation	October 2021	2021 2nd Global Conference for Advancement in Technology	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/GCAT52182.2021.9587788

37	Dr. Vinoth Kumar K Dr. Gunapriya B	Execution of smart electric vehicle charging station driven by RE technology	October 2021	2021 IEEE Mysore Sub Section International Conference, MysuruCon 2021	-	-	70	73	Scopus	Conference	https://doi.org/10.1109/i-PACT52855.2021.9696545
38	Mr. Muni Prakash T	Controller Design for Detection of Various Power Thefts	November 2021	IEEE International Conference on Innovations in Power and Advanced Computing Technologies	-	-	1	6	Scopus	Conference	https://doi.org/10.1109/i-PACT52855.2021.9696752
39	Dr. Prabhakaran N	A survey on smart traffic control system for emerging vehicles	January 2022	2022 International Conference on Computer Communication and Informatics ICCCI 2022	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/ICCCI54379.2022.9740998
40	Dr. Prabhakaran N	A survey on detection theft in transmission and distribution	January 2022	2022 International Conference on Computer Communication and Informatics ICCCI 2022	-	-	1	5	Scopus	Conference	https://doi.org/10.1109/ICCCI54379.2022.9740976
41	Dr. Agalya V	Automated Monorail Integrated with Solar and Piezoelectric Power Generating System	April 2022	2022 8th International Conference on Smart Structures and Systems	-	-	1	7	Scopus	Conference	https://doi.org/10.1109/ICSS54381.2022.9782285
42	Dr. Vinoth Kumar K	IoT Based Parameters Calculation of Electric Bicycle using OpenModelica Simulation Tool with	April 2022	2022 IEEE International Conference on Distributed Computing and	-	-	1	4	Scopus	Conference	https://doi.org/10.1109/ICDCECE53908.2022.9792637

		Data Analytics Technology		Electrical Circuits and Electronics							
43	Dr. Vinoth Kumar K Dr. Sujitha S	Data Analytics for Parameter Estimation of an Electric Bicycle using IoT	June 2022	2022 7th International Conference on Communication and Electronics Systems	-	-	506	511	Scopus	Conference	https://doi.org/10.1109/ICCES54183.2022.9835883
44	Mr. Vinod Kumar S Dr. Mahesh M Dr. Vinoth Kumar K	A Review on Self Stabilizing Platform in Scope of Merchant Navy Applications	August 2022	2022 First International Conference on Artificial Intelligence Trends and Pattern Recognition	-	-	1	4	Scopus	Conference	https://doi.org/10.1109/ICAITPR51569.2022.9844197
45	Dr. Joshua Daniel Raj Mr. Ramakrishnan S Mr. Muniprakash T	Designing of Six Wheel Robotic Vehicle for Instant Disinfection and Sanitization	August 2022	2022 Trends in Electrical, Electronics, Computer Engineering Conference	-	-	18	24	Scopus	Conference	https://doi.org/10.1109/TECCON54414.2022.9854819
46	Dr. Mahesh M Dr. Vinoth Kumar K	Enabling Technologies for Smart Buildings High Power Density Power Electronic Converters	January 2022	Smart Buildings Digitalization IoT and Energy Efficient Smart Buildings Architecture and Applications	1	-	217	218	Scopus	Book Chapter	https://doi.org/10.1201/9781003201069
47	Dr. Gunapriya B Dr. Singaravelan A Dr. Mahesh M	An IoT-based approach for efficient home automation	June 2022	Artificial Intelligence and Internet of Things for Renewable Energy Systems	-	-	91	122	Scopus	Book Chapter	https://doi.org/10.1515/9783110714043-003

48	Dr. Vinoth Kumar K	Network intrusion detection system in latest DFA compression methods for deep packet scruting	July 2021	Design, Applications, and Maintenance of Cyber-Physical Systems	-	-	219	243	Scopus	Book Chapter	https://doi.org/10.4018/978-1-7998-6721-0.ch010
49	Dr. Vinoth Kumar K	Artificial Intelligence-Based Energy Management and Real-Time Optimization in Electric and Hybrid Electric Vehicles	December 2021	EAI/Springer Innovations in Communication and Computing	432	-	219	242	Scopus	Book Chapter	https://doi.org/10.1007/978-3-030-85424-9_12
50	Dr Singaravelan A Dr. Gunapriya B	Sensorless Speed Control of BLDC Motor for EV Applications	January 2022	Lecture Notes on Data Engineering and Communications Technologies	93	-	359	370	Scopus	Book Chapter	https://doi.org/10.1007/978-981-16-6605-6_26
51	Dr. Gunapriya B Dr. Sujitha S	Smart Home Technologies Toward SMART (Specific, Measurable, Achievable, Realistic, and Timely) Outlook	July 2022	Lecture Notes on Data Engineering and Communications Technologies	126	-	711	727	Scopus	Book Chapter	https://doi.org/10.1007/978-981-19-2069-1_49
52	Dr. Vinoth Kumar K	Intelligent Systems in Latest DFA Compression Methods for DPC	July 2022	Handbook of Research on Evolving Designs and Innovation in ICT and Intelligent Systems for Real-World Applications	-	-	129	146	Scopus	Book Chapter	https://doi.org/10.4018/978-1-7998-9795-8.ch009