

**VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY  
MADURAI**

**Published research papers in the Journals during 2020-2021**

**Department of EEE**

<b>S.No</b>	<b>Title of the Paper</b>	<b>Name of the Author's</b>	<b>Name of the Journal</b>	<b>Year of Publication</b>
1.	Therapeutic prevention of Varicose veins and Deep vein Thrombosis	Dr. A. Shunmugalatha	Internal Research Journal of Modernization in Engineering Technology ad Science (IRJMETS)	2021
2.	Fibonacci based Fuzzy Controller for Grid Connected solar Photovoltaic System	Dr. A. Shunmugalatha	Solid State Technologies	2021
3.	UP automatic fault detection using IoT	Dr. N.Karpagam	International Research Journal of Engineeringand Technology (IRJET)	2021
4.	Smart Automatic gas booking and safety measurement Sytem	Dr.R.Narmatha Banu	International Journal of Advanced Research In Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	2021
5.	Solar powered filtration system	Dr. R. Narmatha Banu	International Research Journal of Modernization Technology and Science(IRJMETS)	2021
6.	MVCNN-CASHNET: Multi-View Convolution Neural Network for classifying WW, SW, Split Cashews	Dr. S.Senthilrani	Solid State Technology	2021
7.	Smart farming using soil characterization	Dr. S.Senthilrani	International Journal of Innovative Research in Electrical ,Electronics,Instrument ation and Control Engineering	2021
8.	IoT based aquaculture monitoring system	Dr. S.Senthilrani	International Journal of Innovative Research in Electrical ,Electronics,Instrument	2021

			ation and Control Engineering	
9.	Thermal Aware Device Design Using Hotspot Analysis	Dr. S.Senthilrani	Advances in Automation, Signal Processing, Instrumentation, and Control, Springer Lecture Notes in Electrical Engineering	2021
10.	Computer Vision-Based Vehicle Detection and Tracking	Dr. S.Senthilrani	Advances in Automation, Signal Processing, Instrumentation, and Control, Springer Lecture Notes in Electrical Engineering	2021
11.	Smart And Adaptive Street Lighting System Using Iot	Dr.A.Radhika	International Research Journal of Modernization in Engineering Technology and Science	April 2021
12.	Design Of Wireless Gateway For Dali Based Smart City Automation	Dr.A.Radhika	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021
13.	Stress detection by photoplethysmography and context-based recognition	Dr.T.Chandrasekar	International Research Journal of Engineering and Technology (IRJET)	2021
14.	Footstep Power Generation Platform with Piezoelectric and flooring Mechanism	Dr.T.Chandrasekar	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE)	2021
15.	IoT based drips monitoring system in hospitals	Kiruthiga B	Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021
16.	Smart Safety Enhancement For Mountain Roads	Kiruthiga B	Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021
17.	Congestion Cost Estimation in Deregulated Transmission	Dr.S.Chellam	Tierärztliche Praxis Journal	2021

	Network Using Optimal Power Flow Tracing			
18.	Therapeutic prevention of Varicose veins and Deep vein Thrombosis	J.Rajeswari	Internal Research Journal of Modernization in Engineering Technology ad Science (IRJMETS)	2021
19.	Traffic Signal Pre-Emption Control System for Emergency Vehicles	Om Prakash A	International Research Journal of Modernization in Engineering Technology and Science	2021
20.	Automatic Speed Control of Vehicle by Image Processing	M.Devaki	Suraj Punj Journal For Multidisciplinary Research (SPJMR)	2021
21.	AUTOMATIC VEGETABLE SANITIZING MACHINE	R.Saranya	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineeering (IJAREEIE)	2021
22.	Sonic Wave Based Forest Fire Extinguisher and Detection using Deep Learning	L.Vinothkumar	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	Vol. No. 10 Issue: 03, March 2021
23.	Marinetime Boundary Detection System With Cyclone Alert	A. Madhan	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering	2021
24.	Fuzzy Logic Based Charge Controller in Solar PV for Lighting Systems	Jajini.M	International Journal of Innovative Research in Electrical,Electronics,I nstrumentation and Control Engineering	Vol.9,Issue2, Feb 2021
25.	“Smart shopping cart with social distancing”	M. Swaminathan, AP – III	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering.	2021

**Published research papers in the Journals during 2019-2020**

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<b>S.No</b>	<b>Title of the Paper</b>	<b>Name of the Author's</b>	<b>Name of the Journal</b>	<b>Year of Publication</b>
1.	Improving Control flexibility of Electric Spring using Intelligent Neuro Controller	Dr. A. Shunmugalatha	Solid State Technologies	2020
2.	Pseudo Continuous Conduction Mode Operated Converter of Brushless Dc motor Drives	Dr. A. Shunmugalatha	Solid State Technologies	2020
3.	Boat Surveillance and classification of fish using Neural Network	Dr. A. Shunmugalatha	International Research Journal of Engineering & Technology (IRJET)	April 2020
4.	Mitigation of Power Quality Issues using PV-UPQC and MTG-UPQC in a Distribution System	Dr. A. Shunmugalatha	Journal of Electrical Engineering	June 2020
5.	Estimation of loadability limit with N-1 and N-2 outages using evolutionary computation techniques	Dr. A. Shunmugalatha	Journal of ambient intelligence and Humanized computing	May 2020
6.	Automatic Speed Breaker using IoT	Dr. N.Karpagam	International Research Journal of engineering and Technology	2020
7.	Home security For Physically Challenged Using Servomotor	Dr. N.Karpagam	International Research Journal of Engineering and Technology	2020
8.	Detection and Classification of power quality disturbances or events by adaptive NFS classifier	Dr.R.Narmatha Banu	Springer ,Soft Computing	2020
9.	Assessment Of Fruit Freshness Using DIP	Dr. S.Senthilrani	International Journal of Scientific Research and Engineering Development	2020
10.	AI Surveillance Based Platform Ticketing System With DBMS	Dr. S.Senthilrani	International Journal For Research & Development In Technology	2020
11.	Automatic Fruit Grading System Using Computer Vision	Dr. S.Senthilrani	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	2020

12.	Fruit Maturity Detection System Using Non-Destructive Testing	Dr. S.Senthilrani	International Research Journal of Modernization in Engineering Technology and Science	2020
13.	An Effective Compensation of Power Quality Issues Using MPPT based Cuckoo search optimization approach	Dr.A.Radhika	Springer Soft Computing	May2020
14.	Autonomous Line Following surveillance Robot fitted with Pi-Camera, Thermal Sensing and Obstacle Detection Capability	Dr.A.Radhika	International Journal of Advanced Science and Technology	July2020
15.	Optimal Placement and Sizing of Multi type FACTS Devices for the Reduction of Real power loss and Enhancement of voltage stability using CLPSO and SLPSO	Dr.A.Radhika	Journal of Electrical Engineering	June2020
16.	Mitigation of Power Quality Issues using PV-UPQC and MTG-UPQC in Distribution System	Dr.A.Radhika	Journal of Electrical Engineering	June 2020
17.	Fault Detection in Overhead lines using IoT' has been published in International Research Journal of Engineering & Technology	Dr.A.Radhika	IRJET	July 2020
18.	Integrated Security based on ATM robbery Prevention	Dr.T.Chandrasekar	International Research Journal of Engineering and Technology (IRJET)	2020
19.	Smart Transportation System Monitoring using GPS	Dr.T.Chandrasekar	International Research Journal of Engineering and Technology (IRJET)	2020
20.	Design of Automated Monitoring Robot for Drainage Systems Using IOT Platform	Kiruthiga B	International Research Journal of Engineering and Technology	2020
21.	Design and Implementation of Fuzzy And SVPWM Techniques for Three Phase Three Level Inverters	Kiruthiga B	International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)	2020
22.	Municipal Waste Handling	Dr.S.Chellam	International Research Journal of Engineering	2020

	using IoT		and Technology	
23.	Implementation of Aadhar card based voting machine	Dr.S.Chellam	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	2020
24.	Boat Surveillance and Classification of Fish using Neural Network	J.Rajeswari	International Research Journal of Engineering and Technology (IRJET)	2020
25.	Elucidation of Crop Diseases and Systematic Review of Farming Land	J.Rajeswari	International Journal for Research I Applied Science & Engineering Technology	2020
26.	Maximum Energy Extraction of a Wind Farm Using Pitch Angle Control	Om Prakash A	IEEE Xplore Digital Library	2020
27.	Modern Technology of GSM Based Remote Monitoring and Analysis System	Om Prakash A	International Research Journal of Engineering and Technology (IRJET)	2020
28.	IoT Based Monitoring System for Repetitive, Restricted & Stereotyped Behaviour in Autism	Om Prakash A	International Research Journal of Engineering and Technology (IRJET)	2020
29.	Real time Monitoring System for Hyper tension patient using IoT	Mrs.K.Sneha	Internation Journal of Engineering and Technology	April 2020
30.	Mitigation of Power Quality Issues Using PV-UPQC And MTG-UPQC In a Distribution System	M.Devaki	Journal of Electrical Engineering (JEE)	2020
31.	Wireless Controlled Rough Terrain Vehicle To Detect Alive Human In Earthquake Areas Using Rocker Bogie Suspension	M.Devaki,	International Research Journal of and Technology(IRJET)	2020
32.	Trans-Glas With Convolution Neural Network And LSTM	M.Devaki	International Journal for Research and Development in Technology (IJRDT)	2020
33.	HYBRID ELECTRIC VECHICLES USING SOLAR AND WIND ENERGY WITH PIC MICROCONTROLLER	R.Saranya	International Journal of Engineering Research and Technology(IJERT)	2020
34.	STRESS LEVEL PREDICTION SYSTEM	R.Saranya	International Journal of Engineering Research	2020

	INTERFACED WITH IoT		and Technology(IJERT)	
35.	Theft Protection System	L.Vinothkumar	International Research Journal of Engineering & Technology (IRJET)	Vol. No. 07 Issue: 04 Year: April 2020
36.	Smart Shopping Trolley	L.Vinothkumar	International Research Journal of Engineering & Technology (IRJET)	Vol. No. 07 Issue: 04 Year: April 2020
37.	Fingerprint and Iris Biometric controlled Smart Banking Machine Embedded with GSM Technology for OTP	L.Vinothkumar	International Research Journal of Engineering & Technology (IRJET)	Vol. No. 07 Issue: 05 Year: May 2020
38.	Smartcard Based Grocery Dispensing System	A. Madhan	International Research Journal of and Technology	2020
39.	IoT based Accident Monitoring and Controlling System with Data Logging Facility	Jajini.M	International Research Journal of Engineering & Technology (IRJET)	Vol.7,Issue4, April 2020
40.	For(E)Sight:A Perceptive Device to assist Blind people	Jajini.M	International Research Journal of Engineering & Technology (IRJET)	Vol.7,Issue 3, March 2020
41.	“Oil Skimmer Robot using Artificial Neural Networks”	M. Swaminathan, AP - III	South Asian Journal of Research in Engineering Science and Technology,	2020

**Published research papers in the Journals during 2018-2019**

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S.No	Title of the Paper	Name of the Author's	Name of the Journal	Year of Publication
1.	IoT based Fire Extinguishing System with Visual Surveillance	Dr. A. Shunmugalatha	International Research Journal of Engineering and Technology	2019
2.	Genetic algorithm-based optimization of load-balanced routing for AMI with wireless mesh networks	Dr.R. Narmathabanu	Applied Soft Computing,Elsevier	2019
3.	An Intelligent Algorithm for Joint Routing and Link Scheduling in AMI with a	Dr.R. Narmathabanu	Integrated Intelligent Computing, Communication and	2019

	Wireless Mesh Network, ,		Security, Springer(Book Chapter)	
4.	Analysis of a solar wind integrated energy system	Dr. S.Senthilrani	International Journal, IJSRD	2019
5.	Detection and classification of power quality disturbances or events by adaptive NFS classifier	Kiruthiga B	International Journal of Soft Computing, Springer	2019
6.	Gesture Control Smart System for Deaf and Dumb People	Kiruthiga B	Electronics and Instrumentation (IJAREEIE) Engineering	2019
7.	Virtual Blind Navigation Device with Interactive Assistance	J.Rajeswari	International Journal of Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	2019
8.	IoT based Fire Extinguishing System with Visual Surveillance	J.Rajeswari	International Research Journal of Engineering and Technology (IRJET)	2019
9.	A Health IoT Platform based on the integration of Intelligent packaging, unobtrusive Bio-sensor and intelligent medicine box	Ms.K.Sneha	SSRG International Journal of Computer Science and Engineering	March 2019
10.	IOT BASED CROP PROTECTION FROM WILDLIFE DAMAGE	R.Saranya	International Journal of Engineering Research and Technology(IJERT)	2019
11.	Intelligent Support System for Underground Workers	Jajini.M	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering	Vol.8,Issue 3, March 2019



**Published research papers in the Journals during 2017-2018**

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<b>S.No</b>	<b>Title of the Paper</b>	<b>Name of the Author's</b>	<b>Name of the Journal</b>	<b>Year of Publication</b>
1.	Maximization of net profit by optimal placement and sizing of DG in distribution system	Dr. A. Shunmugalatha	International Research Journal of Engineering and Technology	2018
2.	Power Flow Monitoring in Smart Grid using Smart Energy Meter	Dr. A. Shunmugalatha	International Journal of Pure and Applied Mathematics	2018
3.	Geographic HWMP (Geo-HWMP) routing method for AMI network with lossless packet forwarding	Dr.R. Narmathabanu	IET Cyber-Physical Systems: Theory & Applications	2018
4.	Doubly Fed Induction Generator Based Wind Energy Conversion System Using Matrix Converter With Model Predictive Controller	Dr.R. Narmathabanu	International Journal of Pure And Applied Mathematics	2018
5.	Mitigation of Harmonics in Distribution System using Shunt Active Power Filter by Fuzzy Logic Controller	Kiruthiga B	International Journal for Scientific Research & Development	2018
6.	Usage based Power flow for Transmission Line Cost Estimation in Bilateral Power Market using Power Flow Tracing Principle	S.Chellam	Journal of Electrical Engineering	2018
7.	Robotic Vehicle Movement and arm Control Through Hand Gestures using Arduino	J.Rajeswari	International Research Journal of Engineering and Technology (IRJET)	2018
8.	Automated Fire Quenching Robot with Visual Surveillance	J.Rajeswari	International Journal for Scientific Research & Development (IJSRD)	2018
9.	Remote Multi-parametric monitoring of diesel generator for standalone power station	Mrs.K.Sneha	International Journal Advanced Research in Basic Engg. Sci. & Tech (IJARBEST)	2018
10.	A portable epilepsy system with android alert	Mrs.K.Sneha	International Journal of Science and Innovative Engineering and Technology	May 2018
11.	IoT Based Innovative Agriculture Automation Using Agribot	M.Devaki	International Journal of Advanced Research in Basic Engineering Science & Technology	2018

			(IJARBEST)	
12.	Power Flow Monitoring in Smart Grid using Smart Energy Meter	A. Madhan	International Journal of Pure and Applied Mathematics (Scopus Indexed)	2018

**Published research papers in the Journals during 2016-2017**

**Department of EEE**

S.No	Title of the Paper	Name of the Author's	Name of the Journal	Year of Publication
1.	Systematic vehicle trace with relay control and pulse surveillance	Dr. A. Shunmugalatha	International journal of advanced research	2017
2.	Performance evaluation Of MPPT based solar pumping system with climatic conditions, cost and economics	Dr. N.Karpagam	International Journal of Engineering Science Invention Research & Development (IJESIRD)	2017
3.	Improvement of Power Quality with DVR Controller Using Wind Energy Conversion System in a distributed system	Dr. N.Karpagam	Discovery Journal of engineering,	2017
4.	Application of UPQC with Renewable Energy Resources for Power Quality Improvement In Distributed Generation	Dr. N.Karpagam	Discovery journal of engineering,	2017
5.	Cost Analysis of Energy Efficient Solar Water Pumping System	Dr. N.Karpagam	Discovery Journal of engineering,	2017
6.	Estimation of Dynamic Available Transfer Capability including Hopf Bifurcation Limit using step by step algorithm	Dr.R. Narmathabanu	International Journal of Power and Energy Conversion, Inderscience Publishers.	2017
7.	DEA- based optimal SVM for Online Dynamic ATC estimation incorporating Transmission Capacity Margins	Dr.R.Narmathabanu	International Transactions on Electrical Energy Systems,European Transactions on Electrical Power, Wiley	2017
8.	Control of Small Wind Turbine in the High Wind Speed Region	Dr. S.Senthilrani	International Journal of Latest Engineering Research and Applications (IJLERA)	2017
9.	Optimal Reactive Power	Dr.T.Chandrasekar	Journal of Electrical	2017

	Dispatch using SBDE Algorithm		Engineering (JEE)	
<b>10.</b>	Mitigation of Current Harmonics in Wind Turbine System at Distribution Level Using Shunt Active Filters	Kiruthiga B	IEEE Xplore Digital Library	2017
<b>11.</b>	Analysis of ZVS DC-DC Converter with Voltage Multiplier Circuit for High Voltage Gain	Kiruthiga B	International Journal of Innovative and Emerging Research in Engineering	2017
<b>12.</b>	A Co-operative Driving for Safer Travel using Vehicle to Vehicle Communication	J.Rajeswari	International Journal of Latest Engineering Research and Applications (IJLERA)	2017
<b>13.</b>	Reactive Power Compensation and Mitigation of Current Harmonics in GCWTGS using STATCOM	Om Prakash A	IJERT	2017
<b>14.</b>	Energy harvesting using renewable resources for Aeronautics Application	Om Prakash A	IJIREEIC	2017
<b>15.</b>	Enhancement of Power Quality for the Nonlinear Distribution System Using Active Filter	A. Madhan	International Journal of Innovative Research in Science, Engineering and Technology	2017
<b>16.</b>	Design and implementation of control techniques for zeta converter	Jajini.M	International journal of Scientific research in Science and Technology(IJSRT)	May-June 2017