

## List of Publications

Number of Research Publications: 65

S. No.	Faculty name	Year of publication	Title of the Paper
1	<b>Dr. E. NandaKumar</b> Dr.R.Dhanasekaran R.Mani	June 2015	Optimal Location and Improvement of Voltage Stability by UPFC using Genetic Algorithm (GA)
2	<b>S.Umamaheshwari</b> R.Mahalakshmi	2015	Dynamic Network Event Analysis for Distributed Attack Detection in wireless sensor network
3	<b>A.Little Judy</b> J.Karthika V.Subbiah	January 2016	Energy Management of a hybrid Power System for Variable Speed Wind Turbine and Varying Temperature
4	<b>Mr.P.John Samuel</b> P.C.NaveenaShri S.Ravikumar S.Sreenidhigan B.Sugan	March – 2016	Digitization of Speedometer Incorporating Arduino and Tracing of Location Using GPS in Railways
5	<b>Dr. E. NandaKumar</b> S. RagavanSwaminathan	May 2016	A Novel Approach to Multi-Objective OPF by a new parallel non-dominated Sorting Genetic Algorithm-II considering diverse Constraints
6	<b>R.Anand</b> Dr.S.Saravanan	June 2016	A Correlative Study of Perturb and Observe Technique and GA-RBF-NN Method Supplying a Brushless DC Motor
7	<b>R.Anand</b> Dr.S.Saravanan	June 2016	Solar PV System for Energy Conservation Incorporating an MPPT Based on Computational Intelligent Techniques Supplying Brushless DC Motor Drive
8	<b>G.R.Kanagachidambarsan</b> A.Chitra	July 2016	TA-FSFT Thermal Aware Fail Safe Fault Tolerant Algorithm For wireless body sensor network
9	<b>V.S.Sanjana Devi</b> S.Sam Jai Kumar T.Joby Titus V.Ganesh	December 2016	Automotive Crack Detection for Railway Track using Ultrasonic Sensorz
10	<b>Joys Nancy</b> <b>Z.Afrin</b> <b>P.Gayathri</b> <b>L.K.Hariharan</b> <b>A.Madhankumar</b>	2016	Implementing Intelligent Traffic Control System for ambulance clearance and stolen vehicle Detection
11	<b>P.Kausalya Devi,</b> <b>S.Abirami</b> R.Gowtham R.Mahesh Krishnan	2016	Mitigation of Power Quality Problems in Steel industry loads using DVR
12	<b>S.Abirami</b>	March 2016	The transformerless single phase universal active power filter for harmonic and reactive power compensation
13	<b>V.S.Sanjana Devi</b> B.Saranya T.Joby Titus Dr.V.Vijayakumari	July 2016	Power Model Analysis using Variable rate clock network in CMOS Processor
14	<b>N.R.AnithaAsmy</b> Annam Swetha V.RadhamaniPillay V.Kumaresh	2014	Algorithm for Autonomous Cruise Control System Real Time Scheduling And control Aspects

	R.SaravanaPrabhu SasikumarPunnekkat		
15	<b>E.Nandha Kumar</b> R.Dhanasekaran	September 2014	Simulation of OPF Problem using Modified PSO incorporating with various facts device
16	<b>R.Ambika</b> R.Rajeswari	December 2014	Application of Hybrid PSOGSA to Reactive Power Optimization problem
17	<b>R.Mahalakshmi</b> S.Umamaheswari	2014	Energy Analysis of Variants of Distributed Clustering Schemes for Multi Level Heterogeneous WSNs
18	<b>R.Ambika</b> Dr.R.Rajeswari	2014	The Path of the Smart grid in India
19	<b>Dr. E. NandaKumar</b> Dr.R.Dhanasekaran	2014	Real and Reactive Power Optimization by Effective placement of various FACTS controllers
20	<b>S.Vimalraj</b> S.Sameera S.Saranya	January 2015	RFID based Library Management System
21	<b>S.Vimal raj</b> S.Karthika B.Kavitha T.Nithilkumar B.Dinesh	January 2015	Elimination of Malfunctioning of Density meters during Circuit Breaker Operation
22	<b>Dr. E. NandaKumar</b> Dr.R.Dhanasekaran N.K.Senapathi	January 2015	Real Power Compensation and Loss Reduction Using UPFC by Imperialist Competitive Algorithm (ICA)
23	<b>N.R AnishaAsmy</b> Aparna M Nambiar P.Deebhika S.Deepthi S. Lavanya	February 2015	Investigation of UPQC Power Quality Distortions in wind Electric Systems
24	<b>G.Sivagnanam</b> A.J.Midhun N.Krishna G.Maria Samuel Reuben A.Anguraj	February 2015	Coast Guard Alert and Rescue System for International Maritime Line Crossing of Fisherman
25	<b>R.Ambika</b> R.Rajeswari A.Nivedita	March 2015	Comparitive Analysis of nature inspired Algorithm Applied to reactive Power Planning Studies
26	<b>Dr. E. NandaKumar</b> Dr.R.Dhanasekaran N.K.Senapathi	March 2015	Optimal Location of UPFC by BFO, MSFL and ICA Algorithms
27	<b>Dr. E. NandaKumar</b> Dr.R.Dhanasekaran R.Mani	March 2015	Optimal Location and Improvement of Voltage Stability by UPFC using Genetic Algorithm (GA)
28	<b>Dr. E. NandaKumar</b> R.Mani	March 2015	Optimal location of UPFC in power system using Gravitational Search Algorithm (GSA)
29	<b>Dr. E. NandaKumar</b> Dr.R.Dhanasekaran N.K.Senapathi	March 2015	Real Power Compensation and Loss Reduction Using UPFC by Imperialist Competitive Algorithm (ICA)
30	<b>Dr. E. NandaKumar</b> Dr.R.Dhanasekaran N.K.Senapathi	March 2015	Real and Reactive Power Compensation Using UPFC by Bacterial Foraging Optimization Algorithm (BFOA)

31	<b>R.Anand</b> S.Ragavan Swaminathan N.Ranganathan	May 2015	A Three Phase Seven Level Inverter for Grid Connected Photovoltaic System by Employing PID Controller
32	<b>R.Anand</b> R.Thangavel V.JachinJose	May 2015	A Hybrid Algorithm of Maximum-Power-Point-Tracking Controller for Stand Alone Photovoltaic Energy Conversion System
33	<b>R.Anand</b> T.Kalaiyarasi V.N.Keerthanaa	May 2015	Hybrid Storage System and Photovoltaic wireless Sensor Network
34	<b>R.Anand</b> T.Nivethitha	May 2015	PV Connected BLDC Motor Drive by Employing P&O MPPT Controller
35	<b>R.Anand</b> Dr.S.Saravanan	May 2015	Analysis of Genetic – Assisted Neural Network Based MPPT Controller of a Standalone Solar Photovoltaic System
36	Dr. R. Mahalakshmi Professor & Head	2014	Energy Analysis of Variants of Distributed Clustering Schemes for Multi-Level Heterogeneous WSNs
37	Dr. R. Mahalakshmi Professor & Head	2015	Performance Analysis of Wireless Sensor Networks in Presence of Wormhole Attacks for Various Topologies
38	Dr. R. Mahalakshmi Professor & Head	2015	Effect of 3D Wormholes Attack in Performance Analysis of Wireless Sensor Network for Cellular, Grid and Random Topologies,
39	Dr. R. Mahalakshmi Professor & Head	2015	Dynamic network event analysis for Distributed attack detection in Wireless Sensor Networks
40	Dr. E. Nandakumar Associate Professor	2015	Real Power Compensation and Loss Reduction Using UPFC by Imperialist Competitive Algorithm (ICA)
41	Dr. E. Nandakumar Associate Professor	2015	Optimal Location of UPFC byBFO, MSFL and ICA Algorithms
42	Dr. E. Nandakumar Associate Professor	2015	Optimal Location and Improvement of Voltage Stability by UPFC using Genetic Algorithm (GA)
43	Dr. E. Nandakumar Associate Professor	2015	Real and Reactive Power Compensation Using UPFC by Bacterial Foraging Optimization Algorithm (BFOA)
44	Dr. E. Nandakumar Associate Professor	2014	Real and Reactive Power Optimization by Effective placement of various FACTS controllers
45	Dr. E. Nandakumar Associate Professor	2014	Simulation of OPF Problem Using Modified PSO Incorporating with Various FACTS Devices
46	Dr. E. Nandakumar Associate Professor	2015	Optimal location of UPFC in power system using Gravitational Search Algorithm (GSA)
47	Dr.K.S.ChandraguptaMauryan	2014	Improved Efficiency of Large Capacity Renewable Energy - Integration with Grid
48	Dr.K.S.ChandraguptaMauryan	2014	A study on Intelligent Control for Smart Grid
49	Dr.K.S.ChandraguptaMauryan	2014	The path of the Smart grid in India
50	Dr.K.S.ChandraguptaMauryan	2014	Application of Hybrid PSO GSA to Reactive Power Optimization Problem
51	Ms. R Ambika	2015	Comparative Analysis of Nature Inspired Algorithms Applied to Reactive Power Planning Studies
52	Ms. R Ambika	2015	Techno Economic Analysis Of Photovoltaic/Wind Based Hybrid System for a Factory In Coimbatore Using Homer”
53	Mr.Sivagnanam. G	2015	Coast guard alert and rescue system for international maritime line crossing of fisherman

54	Mr.S.Vimalraj	2015	RFID based library management system
55	Mr.S.Vimalraj	2015	Elimination of malfunction of density meters during circuit breaker operation
56	Ms. B. Kavitha	2015	Control of DVR with Battery energy storage system using SRF theory
57	Mr. R. Anand	2015	PV connected BLDC Motor Drive by employing P&O MPPT controller
58	Mr. R. Anand	2015	"A Hybrid algorithm of maximum power point tracking controller for stand alone photovoltaic energy conversion system"
59	Mr. R. Anand	2015	"PV System based MPPT Controller Supplying BLDC Motor Drive"
60	Mr. R. Anand	2015	"Hybrid Storage system and Photovoltaic wireless sensor network"
61	Mr. R. Anand	2015	" A Three Phase Seven Level Inverter for grid connected photovoltaic system by employing PID controller"
62	Mr. R. Anand	2015	"Analysis of Genetic – Assisted Neural Network Based MPPT Controller of a Stand alone Solar Photovoltaic System"
63	Ms.AnishaAsmy N.R.	2015	Investigation of UPQC for power quality distortions in Wind Electric Systems
64	<b>K.S.ChandraguptaMauryan</b> K.Thanushkodi	2013	Artificial Bee Colonization in Reactive Power Optimization
65	<b>S.Thanigainathan</b> B.Karthik S.Yogaraj	2013	Implementation of Photovoltaic Power System based on Maximum Power Point Tracking
66	<b>Sanjana Devi V.S.</b> Joby Titus	2013	Power estimation in 6T SRAM using Recovery Boosting

#### List of funded Workshops and Seminars

S.no	Date of submission	Faculty name	Funding agency	Project/seminar/workshop proposal title	Amount in rs.
1.	17.02.2017	Ms.V.S.SanjanaDevi,Ms.T.Saranya,Ms.S.Sriragavi	ICMR	Two day national level workshop on "Early Detection of tumours in mammagraphy using wavelet techniques	75,000
2.	15.03.2014	Ms.V.S.SanjanaDevi, Ms.B.Kavitha	MNRE	Role of Geothermal Energy in Global Environment	30000

#### Other Research and Consultancy related activities(2011-2017)

S.No	Organization	Nature of Work	Income Generated (₹)
1	Intergrated Control System And Advanced Laboratory Tiruppur	Smart Water Management System	Rs.5000 /-
2	Lakeba IT Solution - Coimbatore	IOT Application For Elderly And Post Surgical People	-

#### Patent Filing

1. Smart Parking System Indian Patent Filed- K.S.Chandragupta Mauryan(2015-2016)

2. **LATEX Harvesting Device for Rubber Trees Avoiding Higher LATEX Spillage and ensuring Higher Yield – G.R.Kanagachidambaresan (2016-2017)**
3. **Pervasive Smart Posture Recognition System using Neural Fuzzy Approach - G.R.Kanagachidambaresan, R.Anand and K.S.Chandragupta Mauryan(2017-2018)**

#### **Guideship**

1. Dr. E. NandaKumar (January 2009 - October 2014) obtained recognised supervisor ship in **Anna University-Chennai** on April 2015.