PhD AWARDED

No	Scholar	Supervisor	Title	Year
1	S. Subramanian	S. Velusami	Generation planning studies in electrical power systems	2001
2	P.Aravindhababu	S. Subramanian	New power flow and economic dispatch solution techniques for power systems	2005
3	R. Bhuvaneswari	S. Subramanian	Optimization techniques in electrical machine design	2007
4	M. Ramasamy	P.Aravindhababu	Application of fuzzy models to on-line monitoring of power systems	2007
5	I.A. Chidambaram	S. Velusami	Decentralized biased controllers for load-frequency control of interconnected power systems	2007
6	S. Singaravelu	S. Velusami	Steady state modeling and analysis of self -excited induction generators	2007
7	L.Lakshminarasimman	S. Subramanian	Application of evolutionary computation to hydrothermal scheduling	2008
8	R. Balamurugan	S. Subramanian	Economic dispatch solution techniques for power system using computational models	2008
9	M. Anitha	S. Subramanian	Power system operation and management in deregulated environment	2009
10	R. Ashokkumar	P.Aravindhababu	New power flow solution techniques for distribution systems	2009
11	R. Neela	P.Aravindhababu	New state estimation techniques for power systems	2010
12	G. Mohan	P.Aravindhababu	Voltage stability enhancement algorithms for distribution systems	2010
13	G. Yamuna	D. Sivakumar	Certain investigation on data handling methodology using images	2010
14	K. Gayathri	N. Kumarappan	Fault classification and location in EHV transmission lines using wavelet transform and artificial neural network	2010
15	M.M.T. Ansari	S. Velusami	Design of an efficient fuzzy logic controller for isolated hybrid power systems	2010
16	S.Ganapathy	S. Velusami	Design and application of intelligent controller for load frequency control of interconnected power systems	2010
17	V. Padmathilagam	S.P. Natrajan	Performance evaluation of multilevel inverters	2011
18	R. Bensraj	S.P. Natrajan	Investigations on PWM strategies for multilevel inverters	2011
19	S. Padma	S. Subramanian	Design and analysis of transformers using soft computing techniques	2011
20	R.K.Santhi	S. Subramanian	Application of soft computing technique to economic thermal power dispatch problems	2011
21	B. Baskaran	S.P. Natrajan	Performance evaluation of matrix converters	2012
22	M.Arun	P.Aravindhababu	New algorithms for voltage stability enhancement of distribution systems	2012
23	V.P. Sakthivel	S. Subramanian	Design and analysis of three-phase cage induction motors	2012
24	P.D. Sathya	R. Kayalvizhi	Multilevel thresholding for image segmentation	2012
25	S. Ganesan	S. Subramanian	Economic thermal power scheduling with convex and non-convex functions: a simplified direct search method	2012
26	J. Ravikumar	S. Subramanian	Nonlinear recursive state estimation for electrical drives	2012
27	R. Ananadhakumar	S. Subramanian	New solution methods for thermal power dispatch and generator maintenance scheduling	2012
28	Ambalika sharma	S. Velusami	Analysis and interpretation of arrhythmias using ECG signals	2012
29	N.Radhakrishnan	M.Ramaswamy	Investigations on power quality issues in power electronic converters	2012
30	G.Balamurugan	P.Aravindhababu	Intelligent online tools for voltage stability analysis of power systems	2012

31	R.Arivoli	I.A.Chidambaram	Combined intelligent techniques for power system control in AGC problems	2013
32	B. Paramasivam	I.A. Chidambaram	Heuristic control applications to power system automatic generation control problems	2013
33	R. Jayanthi	I.A. Chidambaram	Application of artificial intelligent technique for power system restoration assessment	2013
34	A.Ezhilarasi	M.Ramaswamy	Performance evaluation of SEPIC converters	2013
35	S.Sasikumar	S.Singaravelu	Analysis of self-excited induction generators	2013
36	C.Mahalakshmi	M.Ramaswamy	Investigations on quality enhancement issues of virtual private networks	2014
37	R.Ashok Bakkiyaraj	N.Kumarappan,	New methods for composite power system reliability assessment and application to optimal reliability planning	2014
38	R. Kannan	S. Subramanian	Optimal design of induction machines using soft computing techniques	2014
39	S.Rajasomasekar	P.Aravindhababu	Innovative optimal generation scheduling strategies for power systems	2014
40	G.Balasubramanian	S.Singaravelu	Analysis of an isolated hybrid power system	2014
41	S.Baskar	N.Kumarappan,	Modelling and control strategies of unified power flow controller	2014
42	K. Suresh	N. Kumarappan	Hybrid improved binary particle swarm optimization based generation maintenance scheduling problem in power system using levelized reserve and risk method	2015
43	R. Brinda	R. Joseph Daniel	High performance micro cooling system for ULSI circuits using ladder type micro channels of certain shapes	2015
44	K. Asokan	R. Ashokkumar	Application of intelligent techniques for optimal operation of power system under deregulated environment	2015
45	P.Kailasapathi	D.Sivakumar	Power quality analysis and classification using wavelet transforms	2015
46	M. Abirami	S. Subramanian	Reliable / cost effective maintenance schedules for composite power systems using fuzzy supported teaching learning based optimization	2015
47	R. Gayathri	M. Anitha	Performance enhancement analysis of metamaterial based planar antennas for wireless application	2016
48	E.B. Elanchezhian	S. Subramanian	Economic power dispatch with cubic models using TLBO algorithm and its economy deviation analysis concerning quadratic functions	2016
49	R. Arul	S. Velusami	Application of soft computing technique for security constrained economic dispatch analysis in regulated power systems environment	2016
50	V. Adhimoorthy	I.A. Chidambaram	Comprehensive analysis of intelligent controllers for LFC applications	2016
51	T.A. Rameshkumar	I.A. Chidambaram	Intelligent controllers based security assessment for electric power systems	2016
52	R. Francis	I.A. Chidambaram	Application of wavelet neural network approach for power system control problems	2016
53	ND. Sridhar	I.A. Chidambaram	Design of power modulation controllers for an interconnected power system	2016
54	N. Jayakumar	S. Subramanian	Economic dispatch of combined heat and power generating systems in the feasible domain by grey wolf optimization algorithm	2016
55	A.S. Kannan	R.Kayalvizhi	Performance evaluation of facts controllers	2016
56	S.Rameshkumar	S.Ganapathy	Artificial intelligence optimized load frequency controllers for interconnected power systems in a deregulated environment	2016
57	S.Balakumar	B.Baskaran	Investigation on z source based ac-ac converters for wind energy systems	2016
58	P.S.Prakash	P.Aravindhababu	Intelligent solution algorithms for optimal design of ac motors	2016
59	B.Santhanakrishnan	M.Ramaswamy	New strategies for enhancing energy efficiency of wireless sensor networks	2016
60	M.R.Sathya	M.M.T.Ansari	Design of efficient gain scheduling controllers for interconnected power systems	2016
61	C.Veeramani	G.Mohan	Soft computing technique for dynamic performance of wind energy conversion system	2016

62	N.J.Vinothkumar	M.M.T.Ansari	Design of robust load frequency controller for interconnected power systems	2016
63	E.R.Biju	M.Anitha	Analysis of reliability evaluation of radial distribution systems	2016
64	M.Kalpanadevi	R.Neela	New line flow based state estimation techniques for power systems	2016
65	S.Seenivasan	S.Singaravelu	Modelling and analysis of hvdc transmission systems	2016
66	J.Rameshkumar	S.Ganesan	Environmental receptive / reserve constrained progressive unit commitment using grey wolf optimization algorithm	2016
67	S.Durai	S.Subramanian	Effect of parameters in thermal power dispatch solutions using teaching learning based optimization algorithm	2016
68	R.Thirunavukkarasu	I.A. Chidambaram	Design of various improved control strategies for power system restoration problems	2017
69	B.Rajagopal	S.Singaravelu	Analysis of induction machine under fault condition	2017
70	P.Venkatasubramanian	S.Abrahamlincoln	Application of computational intelligent technique for load frequency control of interconnected power system	2017
71	R.Geetha	M.Ramaswamy	Performance enhancement strategies for induction motor drives	2017
72	N.Mohanandhini	G.Yamuna	Analysis of multiple watermarking using images	2017
73	S.Karthikeyan	G.Mohan	Analysis of frequency synthesis and dynamic performance in power system stabilizer	2017
74	P.Kalyanasundaram	R.Neela	New technique for the assessment of electric power quality of transmission and distribution systems	2017
75	V.Vasudevan	P.Aravindhababu	New economic dispatch strategies for power systems	2017
76	S.Arulvizhi	R.K.Santhi	Intelligent methods for optimal reconfiguration and placement of distributed generations in radial distribution systems	2017
77	P.Velmurugan	B.Baskaran	Enhancement of reactive power support for DG using improved power quality converters	2017
78	R.Sakthivel	M.Arun	Design of power system stabilizer using intelligent optimization technique	2017
79	M.Sundararajan	G.Yamuna	Certain investigation on information security using multimedia	2017
80	R.Thamizhselvan	S.Ganapathy	Machine learning based steady state security assessment of power systems	2017
81	K.Kavitha	R.Neela	New solution techniques for the optimal placement of facts devices in power systems	2017
82	R.Thamaraichelvi	G.Yamuna	Analysis of bio medical images using image segmentation	2017
83	R.Arunmozhi	P.D.Sathya	FPGA implementation of digital image processing techniques for effective communications	2017
84	J.Radha	S.Subramanian	Fuel / emission restricted dynamic power flow using antlion optimizer	2017
85	R.Tamilselvan	V.Padmathilagam	Performance analysis of various modulation strategies for multilevel inverters	2017
86	M.Vanithasri	R.Balamurugan	Power system generation planning using computational intelligence	2017
87	N.Jothinathan	S.Ganapathy	Transient security evaluation of power systems using artificial intelligence techniques	2017
88	J.Kartigeyan	M.Ramaswamy	Performance enhancement strategies for switched reluctance motor	2017
89	N.Mohandas	R.Balamurugan	Optimal location of distributed generation units to improve voltage stability in a distribution system	2017
90	G.Balaji	R.Balamurugan	Thermal generator maintenance scheduling in a power system using evolutionary algorithm	2017
91	R.Ramachandran	M.Arun	Black hole optimization based methods for congestion management in deregulated power systems	2017
92	S.Ganeshkumaran	S.Singaravelu	Smart grid applications in distribution systems	2017
93	R.Natarajan	B.Baskaran	Investigation on sparse matrix converter	2017
94	S.Sentamilselvan	R.Bensraj	Design of feedback controllers and performance enhancement of KY converters	2017
95	G.Saravanan	G.Yamuna	An investigation on improvement of visual perception parameter for digital color images	2018
96	C. Sasi	G.Mohan	Analysis of energy conversion system for grid integration	2018
97	R. Venkadesh	R.Anandhakumar	Power system generation planning with environmental consideration using water evaporation optimization algorithm	2018

98	T.Vigneysh	N.Kumarappan	Modeling, analysis and power quality enhancement of hybrid power source based micro grid using fuzzy logic controller	2018
99	R.Sripriya	R.Neela	New solution techniques for the economic operation of deregulated power systems	2018
100	S.Vadivel	B.Baskaran	Power quality improvement in multi bus system using distributed power flow controller	2018
101	P.Vidhya	R.Ashokkumar	New transmission pricing strategies for restructured power system	2018
102	T.K. Abhiraj	P.Aravindhababu	Dragonfly optimization based algorithms for enhancing voltage stability of radial distribution systems	2018
103	S.A.Chithradevi	L.Lakshminarasimman	Performance enhancement of radial distribution system using soft computing techniques	2018
104	P.Paramasivan	R.K.Santhi	New dynamic economic emission dispatch algorithms for power systems	2018
105	P.Balachandar	S.Ganesan	Economic – environmental constrained real power scheduling of thermal power plants using bio inspired algorithm	2018
106	K.Vetrivel	S.Ganapathy	Artificial intelligent based optimal location of facts devices for congestion management in restructured power systems	2018
107	K.P.Balasubramanian	R.K.Santhi	New intelligent solution algorithm for unit commitment problems	2018
108	R.Saravanan	S.Subramanian	Thermal power generation schedule with renewable energy sources using grey wolf optimization	2018
109	A.A. Jeelani Basha	M.Anitha	Power system operation and management in electricity market	2018
110	G.K.Moorthy	R.K.Santhi	Chemical reaction based solution methods for multi objective optimal reactive power flow	2019
111	R.Arulraj	N.Kumarappan	Single and multi-objective based optimal location and sizing of DG's in radial distribution network using hybrid swarm optimization	2019
112	M.Siva	R.Balamurugan	Nature inspired technique for economic dispatch problems in a power systems	2019
113	K.Chandrasekar	I.A. Chidambaram	Meta heuristic optimization load frequency controllers for a restructured power system	2019
114	E.Umamaheswari	S.Ganesan	Multi objective generator maintenance scheduling using ant lion optimization	2019
115	S. Ezhil	I.A. Chidambaram	Application of load frequency controllers for enhanced power system restoration in a restructured power system.	2019
116	P. Baburao	R.Ashokkumar	Application of soft computing techniques for the solution of hydrothermal generation scheduling in regulated and deregulated power system	2019
117	M. Subashini	M.Ramaswamy	Chaotic control of converter interfaces for solar photovoltaic systems	2019
118	Y. Thiagarajan	R.Ashok Kumar	An analysis on study fed microbial fuel cell for sustainable energy production	2019
119	S. Vijayaraj	R.K. Santhi	Metaheuristic optimization methods for single and multi-area economic dispatch problems	2019
120	S. Siva Sakthi	R.K. Santhi	Optimal solution to unit commitment problem considering operational and environmental issues	2019
121	M. Sangeetha	R. Arivoli	Transient compensation improvement in offshore wind power plant using HVDC	2019
122	R. Gomathi	S. Ganapathy	Machine learning based electricity price forecasting in restructured power markets	2019
123	G. Rajalakshmi	R. Ashokkumar	Performance evaluation of interleaved converter fed drives	2019
124	G.Ganesan@Subramanian	I.A.Chidambaram	Price based automatic generation control with optimal planning of ancillary services in the integrated market systems considering diverse energy sources in restructured power system.	2020
125	P.Suriya	S.Subramanian	Reliable and expenditure effective power system expansion planning based on chaotic grasshopper optimization.	2020
126	C.Poongothai	K.Gayathri	Fault identification and classification on HVDC system using signal processing techniques and artificial neural network	2020