

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Sishaj P. Simon was born in India. He received the B.Eng. degree in electrical and electronics engineering, and the M.Eng. degree in applied electronics from Bharathiar University, Coimbatore, Tamil Nadu, India, in 1999 and 2001, respectively, and the Ph.D. degree in power system engineering from the Indian Institute of Technology (IIT), Roorkee, Uttarakhand, India, in 2006. Currently, he is an Assistant Professor with the Department of Electrical and Electronics Engineering, National Institute of Technology (NIT) (formerly Regional Engineering College), Tiruchirappalli, Tamil Nadu, His research interests include the area of power system operation and control, power system planning and reliability, artificial neural networks, fuzzy logic system, and application of meta-heuristics and intelligent techniques to power system.



1. Name: Dr. Sishaj P Simon
2. Designation: Assistant Professor
3. Office Address: Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli.
4. Telephone (Direct) (Optional): 0431-2503265
Telephone :
Extn (Optional):
Mobile (Optional): 9486001142
5. Email (Primary): sishajpsimon@nitt.edu
Email (Secondary) : sishajpsimon@gmail.com
6. Field(s) of Specialization: Power System Engineering

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Tiruchirappalli	Aug 2006	Till now
Research scholar	IIT Roorkee	July 2002	Aug 2006
Lecturer	Karunya Institute of Technology, Coimbatore, Tamilnadu	Nov 2000	July 2002

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Indian Institute of Technology, Roorkee	Dec 2006	AA	Electrical Engineering
M.E	Bharathiar University, Coimbatore	Feb 2001	First class	Applied Electronics
B.E	Bharathiar University, Coimbatore	April 1999	First class	Electrical & Electronics Engineering

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Nodal Officer	TEQIP-II, NIT Tiruchirappalli	Jan 2013	Till now
Associate Dean	Planning and Development, NIT Tiruchirappalli	Aug 2015	Till now
Member	Library Core Task Committee, NIT Tiruchirappalli	March 2014	Till now

10. Academic/Administrative Responsibilities outside the University: Nil

Position	Institution	From	To

11. Awards, Associate ships etc.: Nil

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2004	Early Faculty Induction Program (EFIP-04)	AICTE	August 2006	July 2009
2002	Ph.D. fellowship	MHRD	July 2002	Aug 2006

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

13. Details of Academic Work

(i) Curriculum Development:

Syllabus updation for following courses:

- (a) EE601 - Advanced power system analysis (PG)
- (b) EE626 - Power system restructuring and pricing (PG)
- (c) EE624 – Power system planning and reliability (PG)
- (d) EE663G – Analysis and design of artificial neural network (PG)

(ii) Courses taught at Postgraduate and Undergraduate levels:

Undergraduate	Postgraduate
<ul style="list-style-type: none"> • Artificial neural network • AI & Expert System • Control system • Basic electrical engineering • Energy and Environmental engineering • Power generation system • Fuzzy system and genetic algorithms • Power system restructuring • Electrical technology 	<ul style="list-style-type: none"> • System theory • Mathematical modelling and control of physical System • Power System planning and reliability • Artificial neural network design and analysis • Power system operation and control • Advanced power system analysis • Power system restructuring and pricing

(iii) Projects guided at Postgraduate level: 40 projects

(iv) Other contribution(s): Nil

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
A pilot project on economic demand response management through online monitoring	Science and Engineering Research Board (DST)	21/05/2013	20/05/2016	Ongoing
Maximum Demand Control through Modern Algorithms	Southern Railways	13/06/2013	29/02/2016	Completed
Design and Optimization of Feedback Controller for Boost type dc-dc converters using Artificial Immune System	Central Power Research Institute	28/05/2013	27/05/2016	Ongoing
Design, Development and Analysis of Bio-inspired	MHRD	11/02/2014	10/02/2017	Ongoing

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

Control strategies for stand-alone solar powered LED lighting systems				
Design and Development of Multi Input 10kVA Online UPS (Solar+grid+battery)	BHEL, Tiruchirappalli	15/09/2014	31/01/2015	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
S. Hemamalini	Noval optimization techniques for economic scheduling of generating units	Supervisor	2011
K. Chandrasekaran	Investigations on solving unit commitment problem using swarm intelligent techniques	Supervisor	2012
C Christopher Columbus	Certain investigations on solving unit commitment problem using swarm based parallel models	Supervisor	2012
S Sreejith	Scheduling of thermal generating units incorporating FACTS devices using Bee colony intelligent system	Supervisor	2013

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event	Role	Event Organized by	Venue
4 th - 7 th Feb 2014	Workshop on “Research Methodology & Intellectual Property Rights”, organized by	National	Participant	Equate India, New Delhi	New Delhi
3 rd - 11 th June 2013	Training on “Software Tools, Open Source Tools and Simulation Tools”	National	Participant	IIT Roorkee	Roorkee
4 th - 8 th March 2013	Workshop on “Decision Making For Effective Leadership”	National	Participant	Administrative Staff College of India, Hyderabad	Hyderabad
11 th - 12 th Feb 2013	Training on “Outbound Experiential Learning for Team building & Effective Group Dynamics”	National	Participant	Outbound Training by TEQIP-II	Chennai
12 th -22 nd Nov 2011	ISTE Workshop on “Solar Photovoltaic’s: Fundamentals, Technologies and Applications	National	Participant	IIT Bombay	Mumbai

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

	conducted”				
6 th – 8 th , Sep 2011	Presented a research paper in “ The IET Renewable Power Generation Conference 2011 (RPG-2011)”	International	Paper presenter	IET	Edinburgh, UK
24 th July 2009	Course on “Power Quality & Energy Management Perspectives in Indian industries”	National	Participant	CIT, Coimbatore	Coimbatore
7 th – 12 th July 2008	Quality Improvement Programme on “Instructional Design and Delivery”	National	Participant	Technical Teachers Training Institute, Chennai	Chennai
16 th – 28 th June 2008	Summer school on “Power Electronics and Renewable Energy Electric Conversion Systems”	National	Participant	Dept. of EEE, NIT Tiruchirappalli	Tiruchirappalli
16 th -18 th April 2008	Presented a research paper in “The Tenth International Conference on Power and Energy Systems (PES-2008)”,	International	Paper presenter	International Association of Science and Technology for Development, USA	USA (IASTED). Baltimore, USA
28 th Jan- 1 st Feb 2008.	Short-Term course on “Electrical Machines and Power Electronics in Renewable Energy systems”	National	Participant	Dept. of EEE, NIT Tiruchirappalli	Tiruchirappalli
12 th Nov 2007 – 11 th Dec 2007	Training on “Artificial Intelligence” in the Game Lab	International	Participant	School of Computer Engineering at Nanyang Technological University, Singapore	Singapore
28 th -29 th Sep 2007.	Workshop on “Electronic Circuit Design Techniques”	National	Participant	Dept. of EEE, NIT Tiruchirappalli	Tiruchirappalli
28 th -29 th Aug 2007	Intensive course on “Recent Trends In Wind Power Generation and FACTS”	National	Participant	Dept. of EEE, NIT Tiruchirappalli	Tiruchirappalli
27 th -30 th Dec 2006	Attended the 14 th National Power System Conference (NPSC 2007)	National	Participant	IIT Roorkee	Roorkee

**17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/
Organizing Secretary/ Convenor / Co-Convenor)**

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Workshop on “Implementation of Firefly Algorithm in SCILAB and μ - Controller”	National	10 th -11 th October 2014	Convenor	NIT Tiruchirappalli
Workshop on Communication	National	16 th to 18 th June	Convenor	NIT

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

and Soft Skills for Engineers and Architects		2014		Tiruchirappalli
Workshop on “Particle Swarm Optimization (PSO), Applications and Implementation on a Microcontroller”	National	8 th March 2014	Convenor	NIT Tiruchirappalli
Conclave on “Academic Enhancement in Electrical Engineering”	National	8 th to 10 th November 2013	Convenor	NIT Tiruchirappalli
Workshop on “Fuzzy Systems and Applications”	National	13 th July 2013	Convenor	NIT Tiruchirappalli
Workshop on “Application of Biologically Inspired Algorithms for Power System and Power Electronics”	National	8 th July 2012	Convenor	NIT Tiruchirappalli
Staff development Programme on “ Recent Researches on Fuzzy Logic and Neural Networks	National	21 st June 2010 – 3 rd July 2010 (Two weeks)	Convenor	NIT Tiruchirappalli
Staff development Programme on “Engineering Practices on Fuzzy Logic, Neural Networks and Hybrid Systems”	National	15-27, June 2009 (Two weeks)	Convenor	NIT Tiruchirappalli
Workshop on “Recent Trends in Modeling and Simulation in Power Systems and Power Electronics” for Engineering College Teachers	National	30 th - 31 st March 2007	Convenor	NIT Tiruchirappalli
Intensive Course on “Wind Power Integration”	National	20 th to 27 th August 2007	Convenor	NIT Tiruchirappalli
Work shop on “Developing Team Work”	National	6 th October 2007	Convenor	NIT Tiruchirappalli

18. Invited Talks delivered:

Topic	Date	Inviting Organization
Swarm Intelligence	12/10/2007	ECE Association function of EGS Pillay Engineering College, Nagapattinam, TamilNadu.
Neural Networks and Applications in Electrical Power	02/01/2008	Indian Institute of Industrial Engineering, Trichy Zone (Near BHEL)
Artificial Neural Network and Application	21/08/2008	Sengunthar Engineering College, Tiruchengode , Tamilnadu
Swarm Intelligence and Deregulation of Power Industry	16/10/2008	National Engineering College, Kovilpatti, Tamilnadu
Computational Techniques for Power Electronics and Power Systems	20/03/2009	Adhiparasakthi Engineering College, Melmaruvathur-603319, Tamilnadu

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

Matlab – Fuzzy & ANN Toolkit	16.04.2009	IRTT Erode
Ant Intelligence	11/09/2009	PEC, Pondicherry,
Bio-Inspired Intelligent System for IIR Filter Design	21/11/2009	Hindustan college of Engineering and Technology, Coimbatore
AI and its Applications	10/02/2010	Nehru college of Engineering and Research Centre, Pampady, Thrissur
Computational Intelligence and Artificial Neural Networks in Power System	07/08/2010	Vickram college of Engineering, Madurai
De-regulated Power Market	08/01/2011	at Angel College of Engineering and Technology, Tirupur
Deregulation of Power System	05/02/2011	Kumara guru College of Technology, Coimbatore
Application on Intelligent techniques in the Analysis and Design of Electrical Systems	29/04/2011	KSR college of Engineering, Tiruchengode
Intelligent Controllers	06/08/2011.	Sethu Institute of Technology, Virudhunagar
Power Systems	19/08/2011	St. Joseph college of Engineering & Technology, Thanjavur
Evolution of Smart Grids	26/08/2011	Coimbatore Institute of Technology, Coimbatore
Application of Ant Colony Optimization	20/03/2012	College of Engineering, Anna University, Chennai.
Meta-Heuristic Algorithm & Ant Colony Technique with Suitable Case Studies	8/12/2012	R.M.K College of Engineering and technology, Chennai.
Smart Grids	9/2/2014	National Institute of Technology, Suratkal, Karnataka
Application of Artificial Intelligence Techniques on Unit Commitment Problem	15/07/2014	National Institute of Technology, Surat, Gujarat.
Fire Fly Algorithm for Generation Scheduling	03/11/2015	Karunya University, Coimbatore

19. Membership of Learned Societies:

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member	System Society of India	LM30283
Member	Indian Society of Technical Education	LM68331
Member	Solar Energy Society of India	LM/1439/2010

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

20. Academic Foreign Visits:

Country	Duration of Visit	Programme
UK	6th – 8th, September 2011	The IET Renewable Power Generation Conference 2011 (RPG-2011), Edinburgh, UK
USA	April 16, 2008–April 18, 2008.	Chaired the session “Electricity Market” at the Tenth IASTED International Conference on “Power and Energy System” held at Baltimore, USA
Singapore	(Nov 12th 2007 – Dec 11th 2007)	TEQIP Training for one month on “Artificial Intelligence” in the Game Lab, School of Computer Engineering at Nanyang Technological University,
Isreal	16 th Nov 2016 to 18 th Nov 2016	IEEE conference (ICSEE 2016) in Israel (Eilat)

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Vol. (No.)	Page no.	Year
Anilkumar T.T., Sishaj P Simon, P. Srinivasa Rao Nayak, K. Sundareswaran and Narayana Prasad Padhy	Pico-Hydel Hybrid Power Generation System with an Open Well Energy Storage,	IET Gen. Trans. Dist.,	In press		2016
E.Sathish, N.Sivakumaran, Sishaj P Simon, S.Raghavan, "	Genetic Algorithm based Feature Selection for Classification of Focal and Nonfocal Intracranial Electroencephalographic Signals,	Journal of scientific and industrial research.			
M. Senthil kumar, Sishaj P Simon, P. Srinivasa Rao Nayak, K. Sundareswaran and Narayana Prasad Padhy	An Empirical Fourier Transform Based Power Transformer Differential Protection,	IEEE Transactions on Power delivery. DOI: 10.1109/TPWRD.2016.2575981			
Muhammad Ehsan R, Sishaj P Simon,	Day-Ahead Forecasting of Solar Photovoltaic Output Power using Multilayer Perceptron	Springer Neural Computing and Applications, DOI: 10.1007/s00521-016-2310-z			
Banumalar Koolsamy, Manikandan Bairavan Veerayan, Chandrasekaran Koolsamy and Sishaj Pulikottil Simon	Firefly algorithm with multiple workers for the power system unit commitment problem,	Turkish Journal of Electrical Engineering & Computer Sciences, DOI:10.3906/elk-1411-77.			
M. Senthil kumar, Sishaj P Simon, P. Srinivasa Rao Nayak, K. Sundareswaran and Narayana Prasad Padhy	Power Transformer Protection using Chirplet Transform	IET Gen. Trans. Dist.,	10	2520-2530	July 2016

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Kinattungal, Sundareswaran, Vigneshkumar Vethanayagam, Sankar Peddapati, and Sishaj P Simon	Development of an improved P&O algorithm assisted through a colony of foraging ants for MPPT in PV system.	IEEE Transactions on Industrial Informatics,	12	187-200	Feb 2016
S Sreejith, Sishaj P Simon, MP Selvan,	Analysis of FACTS devices on Security Constrained Unit Commitment problem	International Journal of Electrical Power & Energy Systems, Elsevier Publications,	66	280-293	Mar 2015
Kinattungal Sundareswaran, Peddapati Sankar, PSR Nayak, Sishaj P Simon, Sankaran Palani,	Enhanced Energy Output From a PV System Under Partial Shaded Conditions Through Artificial Bee Colony	IEEE Trans. Sustainable Energy,	6	198-209	Jan 2015
K. Chandrasekaran, Sishaj P Simon and N P Padhy,	SCUC Problem for Solar/Thermal Power System Addressing Smart Grid Issues Using FF Algorithm	International Journal of Electrical Power and Energy Systems, Elsevier Publications,	62	450-460	Nov 2014.
K Arthishri, R Balasubramanian, P Kathirvelu, Sishaj P Simon, and R Amirtharajan,	Maximum Power Point Tracking of Photovoltaic Generation System using Artificial Neural network with Improved Tracking Factor	Journal of Applied Sciences, Asian Network for Scientific Information,	14	1858-1864	Aug 2014.
S Sreejith and Sishaj P Simon,	Cost Benefit Analysis on SVC and UPFC in a Dynamic Economic Dispatch Problem	International Journal of Energy Sector Management, Emerald Group Pub. Ltd,	8	395 - 428	Aug 2014
K. Chandrasekaran, Sishaj P Simon and N P Padhy,	Cuckoo search Algorithm for Emission Reliable economic multi-objective Dispatch Problem,	IETE Journal of Research, Taylor and Francis Publisher,	16	128-138	Mar 2014
K Chandrasekaran, Sishaj P Simon,	Wind-Thermal Integrated Power System Scheduling Problem Using Cuckoo Search Algorithm	International Journal of Operations Research and Information Systems (IJORIS),	5	81-109	July 2014
K Chandrasekaran, Sishaj P Simon, NP Padhy,	Multi-objective REED problem based on minimum deviation index using Cuckoo search algorithm	International Journal of Engineering, Science and Technology,	6	89-100	Mar 2014.
SE Peter, IJ Raglend, SJP Simon,	An architectural frame work of ANN based short term electricity price forecasting engine for Indian energy exchange using similar day approach	Int J Res Eng Tech.	2	11-122	2014
C. Christopher Columbus and Sishaj P Simon,	Nodal-Based Ant Colony Optimization For Profit Maximization Of Gencos In A Distributed Cluster Model	Applied Artificial Intelligence, Taylor and Francis Publisher	27	86-103	Feb 2013
K. Chandrasekaran, Sishaj P Simon,	Optimal Deviation based Firefly Algorithm Tuned Fuzzy Design for Multi-Objective UCP	IEEE Transaction of Power System	28	460-471	Feb 2013
K.Chandrasekaran and Sishaj P Simon,	Fuzzified artificial bee colony algorithm for non-smooth and non-convex multi objective economic dispatch problem	Turkish Journal of Electrical Engineering and Computer Sciences,	21	1995-2014	Nov 2013
Santosh Kulkarni , Sishaj P Simon and K Sunderewaran,	Spiking Neural Network Forecast Engine for Short Term Electrical	Applied Soft Computing, Elsevier Publications,	13	3628-	Aug

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

	Load Forecasting			3635	2013
K. Chandrasekaran, Sishaj P Simon,	Binary Real Coded Firefly Algorithm for Unit Commitment problem	Information Sciences, Elsevier Publications,	248	67-68	Nov 2013
C. Christopher Columbus and Sishaj P Simon,	Profit based unit commitment for GENCOs using Parallel NACO in a distributed cluster	Swarm and Evolutionary Computing, Elsevier Publications	10	41-58	June 2013
K.Chandrasekaran, Sishaj P Simon,	Development of Sustainable Energy on Generation System Leads to Eco-Friendly Society	Sustainable Cities and Society, Elsevier publications	8	1-15	Oct 2013
S.Sreejith, Sishaj P Simon, M.P.Selvan,	Optimal Location of IPFC using ABC Algorithm	Achieves in Electrical Engineering, The Journal of Polish Academy of Sciences,	62	91-110	2013
K. Chandrasekaran, Sishaj P Simon,	Multi-Objective UCP with Reliability Function using Fuzzified Binary Real Coded Artificial Bee Colony Algorithm	IET Generation, Transmission and Distribution,	6	1060 – 1073	June 2012
K. Chandrasekaran, S. Hemamalini, Sishaj P Simon and N.P. Padhy,	Thermal unit commitment using binary/real coded artificial bee colony algorithm	Electric Power Systems Research, Elsevier publications,	84	109–119	2012
K.Chandrasekaran, Sishaj P Simon,	Network and Reliability Constrained Unit Commitment Problem using Binary Real Coded Firefly Algorithm	Electrical Power and Energy Systems, Elsevier publications,	43	921-932	2012
C. Christopher Columbus ,K. Chandrasekaran, and Sishaj P. Simon,	Nodal ant colony optimization for solving profit based unit commitment problem for GENCOs	Applied Soft Computing, Elsevier publications,	12	145–160	2012
C. Christopher Columbus and Sishaj P Simon,	Profit Based Unit Commitment: A Parallel ABC approach using a Workstation Cluster	Computers & Electrical Engineering, Elsevier publications,	3	724-745	2012
S.Sreejith, Sishaj P Simon, M.P.Selvan,	Performance Comparison of FACTS Devices for Steady State Power Flow Control	International Review on Modeling and Simulations, Praise Worthy Prize Publication,	5	576-588	April 2012
S.Sreejith, Sishaj P Simon, M.P.Selvan,	Optimal Location of Interline Power Flow Controller in a Power System Network using DE Algorithm	International Review on Modeling and Simulations, Praise Worthy Prize Publication,	5	690-701	April 2012
S Hemamalini and Sishaj P. Simon,	Emission Constrained Economic Dispatch with Valve-Point Effect Using Maclaurin Series Based Lagrangian Method	International Journal of Power and Energy Conversion, Inderscience Publishers Ltd,	3	1/2,	2012
K.Chandrasekaran, Sishaj P Simon,	Firefly Algorithm for Reliable/Emission/Economic Dispatch Multi Objective Problem	International Review of Electrical Engineering, Praise Worthy Prize Publication,	7	199-210	2012
K.Chandrasekaran and Sishaj P Simon,	Multi-objective scheduling problem: Hybrid approach using fuzzy assisted cuckoo search algorithm	Swarm and Evolutionary Computation, Elsevier publications,	5	1-16	2012
C. Christopher Columbus and Sishaj P Simon,	A hybrid Artificial Bee Colony Approach for Security Constrained unit Commitment	International review of Electrical Engineering, Praise Worthy Prize	7	5155-5166	2012

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

		Publication,			
S.Sreejith, Sishaj P Simon, M.P.Selvan,	Optimal Location of IPFC based on Installation Cost in a Power System Network using ABC Algorithm	Trends in Electrical Engineering,	2	1-20	April 2012
K.Chandrasekaran and Sishaj P Simon,	Tuned fuzzy adapted firefly lambda algorithm for solving unit commitment problem	Journal of Electrical Systems, Engineering and Scientific Research Groups,	8	132-150	June 2012
S Hemamalini and Sishaj P. Simon,	Dynamic economic dispatch using artificial immune system for units with valve-point effect	International Journal of Electrical Power & Energy Systems, Elsevier Science Ltd.,	33	868-874	May 2011
S Hemamalini and Sishaj P. Simon,	Dynamic Economic Dispatch Using Artificial Bee Colony Algorithm for Units with Valve-Point Effect	European Transactions on Electrical Power, Wiley Inter Science,	21	70-81	Jan 2011
* S Hemamalini and Sishaj P. Simon,	Dynamic Economic Dispatch Using Maclaurin Series Based Lagrangian Method	Energy Conversion and Management, Elsevier Science,	51	2212-2219	Nov 2010
S Hemamalini and Sishaj P. Simon,	Artificial Bee Colony Algorithm for Economic Load Dispatch with Valve-point Effect	Electric Power Components and Systems, Taylor and Francis	8	786-803	Jan 2010
S Hemamalini and Sishaj P. Simon,	Dynamic economic dispatch with valve-point effect using Maclaurin series based Lagrangian method	International Journal of Computer Applications	17	71-78	May 2010
K. Chandrasekaran, Sishaj P Simon,	Reliability Constrained Price Based Unit Commitment using Genetic Algorithm	International Journal of Engineering, Computer Science and Mathematics, Serial Publications,	1	81-93	June 2010
S Hemamalini and Sishaj P. Simon.	Maclaurin Series Based Lagrangian method for Economic Dispatch with Valve-Point Effect	IET Generation and Distribution,	3	859-871	Sep 2009
S. P. Simon, N. P. Padhy and R. S. Anand,	An Ant Colony System Approach for Unit Commitment Problem	International Journal of Electrical Power & Energy Systems, Elsevier Science Ltd.,	28	315-323	June 2006
S. P. Simon, N. P. Padhy and R. S. Anand,	A new ant colony system model for unit commitment problem	Water and Energy International Journal, Central Board of Irrigation and Power, New Delhi,	63	49-57	Jan-Mar 2006
S. P. Simon, N. P. Padhy and R. S. Anand,	Solution to Unit Commitment Problem with Spinning Reserve and Ramp Rate Constraints Using Ant Colony System	Journal of Energy & Environment, Centre of Energy Studies, Dhaka, Bangladesh	4	21-35	May 2005

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

(B) Conferences/Workshops/Symposia Proceedings

International conference:

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page no.	Venue	Year
Sishaj P Simon, M. Senthil Kumar, K. Sundareswaran and C Christopher Columbus,	Performance Analysis of Empirical Fourier Transform based Power Transformer Differential Protection	ICSEE 2016 Conference, Israel.		Eilat, Israel	2016
R Muhammad Ehsan, Sishaj P Simon, PR Venkateswaran,	Artificial neural network predictor for grid-connected solar photovoltaic installations at atmospheric	International Conference on IEEE Advances in Green Energy (ICAGE)	44-49.		2014
R Muhammad Ehsan, Sishaj P Simon, PR Venkateswaran,	Day-ahead prediction of solar power output for grid-connected solar photovoltaic installations using Artificial Neural Networks	2014 IEEE 2nd International Conference on Emerging Electronics (ICEE)	1-4.		2014
Mary Prasanna T, C H Ram Jethmalani and Sishaj P Simon,	Thermal Unit Commitment Considering Pumped Storage Hydro Electricity Plants,	IEEE International Conference on Energy Efficient Technologies for Sustainability (ICEETS 2013),	964-969	Nagercoil, India,	2013
S.Sreejith, Sishaj P Simon, N.P.Padhy,	Estimation of recovery Cost with the Incorporation of an IPFC in a SCUC problem	IEEE 2013 Power and Energy Society General Meeting	1-5	Vancouver Canada	
C.Christopher Columbus and Sishaj P Simon,	A New Spike Based Neural Network for Short-Term Electrical Load Forecasting,	4th IEEE International Conference CICN	804-808	Mathura India	2012
C.Christopher Columbus and Sishaj P Simon,	A parallel ABC for security constrained economic dispatch using shared memory model	IEEE International Conference on Power, Signals, Control & Computation (EPSCICON 2012)	1-6	Thrissur Kerala	2012
K. Chandrasekaran, Sishaj P Simon,	Binary/Real Coded Particle Swarm Optimization for Unit Commitment Problem	IEEE International Conference on Power, Signals, Control & Computation (EPSCICON 2012)	1-6	Thrissur Kerala	2012
S.Sreejith, Sishaj P Simon, M.P.Selvan,	Comparative evaluation of modeling methods for TCSC in optimal power flow studies	IEEE International Conference on Power, Signals, Control & Computation (EPSCICON 2012)		Thrissur Kerala	2012
S.Sreejith, Sishaj P Simon, M.P.Selvan,	Optimal power flow incorporating Thyristor Controller Series Compensator using Differential Evolution	IEEE International Conference ICCEET	174-179	Edinburgh UK	2012
K.	Demand Response Scheduling	IET Renewable Power	1-8	Chennai	2011

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

Chandrasekaran, Sishaj P Simon,	in SCUC Problem for Solar Power Integrated Thermal Unit System Using Firefly Algorithm	Generation Conference			
K. Chandrasekaran, Sishaj P Simon,	Reserve Management in Bilateral Power Market for Composite System with Load Forecast Uncertainty	International Conference on Recent Advancements in Electrical Electronics and Control Engineering	5-12	National Institute of Technology Karnataka	2011
S.Sreejith, Sishaj P Simon, M.P.Selvan,	Investigations on Power Flow Solutions Using Interline Power Flow Controller (IPFC)	IET International conference on Sustainable Energy and Intelligent System (SEISCON 2011)	63-68	Dr. M.G.R. University Chennai	2011
S.Sreejith, Sishaj P Simon, M P Selvan,	Power Flow Analysis Incorporating Firing Angle Model Based TCSC	Fifth International Conference on Industrial and Information Systems – 2010	183-193.		2010
S Hemamalini and Sishaj P Simon,	Economic/Emission Load Dispatch Using Artificial Bee Colony Algorithm	International Conference on Control Communication and Power Engineering 2010 CCPE-2010	338-343	Chennai India	2010
C.Christopher Columbus and Sishaj P Simon,	Parallel Particle Swarm Optimization for Non Convex Economic Dispatch Problem	4th International Conference on Computer Applications in Electrical Engineering Recent Advances		Indian Institute of Technology Roorkee India	2010
K Chandrasekaran and Sishaj P Simon,	Reliability Constrained Unit Commitment using Genetic Algorithm	International Conference on Recent Advancements in Electrical Sciences (ICRAES '10)			2010
K Chandrasekaran and Sishaj P Simon,	Unit Commitment in Composite Generation and Transmission Systems using Genetic Algorithm	IEEE Technical Conference, International Symposium on Biologically Inspired Computing and Applications (BICA-2009)		Bhubaneswar India	2009
Sreejith S, Chandrasekaran K and Sishaj P Simon,	Touring Ant Colony Optimization Technique for Optimal Power Flow Incorporating Thyristor Controlled Series Compensator	IEEE Technical Conference, International Symposium on Biologically Inspired Computing and Applications (BICA-2009)		Bhubaneswar India	2009
S Sreejith, K Chandrasekaran and Sishaj P Simon,	Application of Touring Ant Colony Optimization Technique for Optimal Power Flow Incorporating Thyristor Controlled Series Compensator	IEEE Technical Conference, TENCON-2009		Singapore	2009
S Hemamalini and Sishaj P Simon,	Emission Constrained Economic Dispatch with Valve-Point Effect using	IEEE Technical Conference, TENCON-2008		University of Hyderabad	2008

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

	Particle Swarm Optimization				
B Vanaja, S Hemamalini and Sishaj P Simon,	Artificial Immune Based Economic Load Dispatch with Valve-Point Effect	IEEE Technical Conference, TENCON-2008		University of Hyderabad	2008
B Vanaja, S Hemamalini and Sishaj P Simon,	Genetic Algorithm based Economic Load Dispatch with Value point Effect	Tenth IASTED International Conference on			2008
N Purender, S Hemamalini and Sishaj P Simon,	Scheduling of Generators using Hybrid Particle Swarm Optimization	IEEE International Conference on Power System Analysis, Control and Optimisation (PSACO-2008) Andhra University		Visakhapatnam AP	2008
S. P. Simon and Narendra S Chaudhari,	Ant Colony Models: An Application to Traveling Salesman Problem	International Conference on Soft computing and Intelligent System (ICSCIS-07)		Jabalpur India	2007
S. P. Simon, N. P. Padhy and R. S. Anand,	Ant Colony System based Unit Commitment Problem with Gaussian Load Distribution	IEEE General Meeting 2006 held on June 18 - 22		Montreal Quebec CANADA.	2006
S. P. Simon, N. P. Padhy and R. S. Anand,	Max-Min Ant System Model for Unit Commitment Problem with Optimal Power Flow Constraints	International Conference Challenges and Strategies for Sustainable Energy	88-99	IET Campus Lucknow	2006
S. P. Simon, N. P. Padhy and R. S. Anand,	Modified Touring Ant Colony Optimization Algorithm for Unit Commitment Problem	International Conference on Computer Applications in Electrical Engineering – Recent Advances	104-108	IIT Roorkee Roorkee	2005
S. P. Simon, N. P. Padhy and R. S. Anand,	Ant Colony System for solving Unit Commitment Problem with power flow constraints	International Conference on Computer Applications in Electrical Engineering – Recent Advances	134-139	IIT Roorkee Roorkee	2005
S. P. Simon, P. Karthigaikumar and Thomas Joseph,	Performance Analysis of Neural Network for Electrical Load forecasting	International Conference on Computer Applications in Electrical Engineering-Recent advances (CERA-2002)	514–520	IIT Roorkee Roorkee	2002

National conference:

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page no.	Venue	Year
S Hemamalini and Sishaj P Simon,	Economic Load Dispatch Problem with Valve-Point Effect Using Artificial Bee Colony Algorithm	32nd National System Conference 2008		Dept. of Electrical Engg IIT Roorkee	2008
S. P. Simon, N. P. Padhy and R. S. Anand,	Multi-Stage Intelligent Scheduling Of UCP Using ACO elistic and PSO modified	14th National Power system Conference (NPSC 2006)		IIT Roorkee	2006

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

S. P. Simon, N. P. Padhy and R. S. Anand,	Solution to Unit Commitment Problem using Ant Colony Model	National Conference on Technical Challenges in Power Systems held on March 24 - 25	17-22	Kamala Nehru National Institute of Technology Sultanpur UP India.	2006
S. P. Simon, N. P. Padhy and R. S. Anand,	A new Ant Colony System approach to Unit commitment Problem	13th National Power system Conference (NPSC 2004)	1061 – 1066	IIT Madras	2004
S. P. Simon, N. P. Padhy and R. S. Anand ,	Ant Colony System: An Application to Traveling Salesman Problem	27th National Systems Conference	215 – 220	IIT Kharagpur	2003
S. P. Simon, P. Karthigaikumar and Thomas Joseph,	Performance Analysis of Weather Sensitive Short Term Load Forecasting Using Multilayer Perceptrons	12th National Power System Conference	296 – 298	IIT Kharagpur	2002
S. P. Simon, P. Karthigaikumar and Thomas Joseph,	Application of Time Delay Neural Networks to Adaptive Auto re-closure Technique	National Conference on Modern trends in Electrical and Instrumentation Systems	253 – 257	Government College of Technology Coimbatore	2002
S. P. Simon, P. Karthigaikumar and Albert Rajan,	Application of Multilayer Neural Networks to Adaptive Auto-reclosure Technique	National Conference on 'Recent Trends in Electrical Energy Conservation and Management	113 – 116	Annamalai University Annamalai nagar	2002
P. Karthigaikumar, Sishaj P. Simon and M. Subadhra,	Application of Fourier Transform to Energy measurement using PC	National Conference on Sensors and Instrumentation	55	ISS College of Information Technology & Engineering for Women Hyderabad	2002
T. Aruldoss Albert Victoire, Thomas Joseph and Sishaj P. Simon	Unit Commitment: A Novel Hybrid Algorithm Integrating the EP,SA &NN	International Conference on Control Instrumentation and Information Communication	127 – 131	University of Calcutta	2001

(C) Books & Monographs:

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
N.P. Padhy & S. P. Simon	Soft Computing With MATLAB Programming"	Oxford University Press	2015	9780199455423