National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty

Curriculum Vitae

Brief Profile:

Dr. Sishaj P. Simon was born in India. He received the B.Eng. degree in electrical and electronics engineering, the M.Eng. degree in applied electronics both 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 Associate Professor with the Department of Electrical and Electronics Engineering, National Institute of Technology (NIT) (formerly Regional Engineering College), Tiruchirappalli, Tamil Nadu, India. His research interests include the area of power system operation and control, power system planning and reliability, Solar PV, meta-heuristics, Machine Learning and Deep Learning to power systems.

1. Name: Dr. Sishaj P Simon

2. Designation: Associate Professor

3. Office Address: Electrical Department, NIT Trichy Thuvakudi, Trichy, 620015, Tamil Nadu

4. Telephone (Direct) (Optional): 0431-2503265

   Telephone : +91- 9944073421
   Extn (Optional): 0431-2503265

   Mobile (Optional):

5. Email (Primary): sishajpsimon@nitt.edu   Email (Secondary) :

6. Field(s) of Specialization: Power Systems

7. Employment Profile

Job Title	Employer	From	To
Associate Professor	NIT Trichy	March 2018	Till Now
Assistant Professor	NIT Trichy	August 2006	March 2018
Research Scholar	IIT Roorkee	July 2002	August 2006
Lecturer	Karunya Institute of Technology	November 2000	July 2002

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	IIT Roorkee	2006	AA	Investigations of Ant Colony Models for Solving Unit Commitment Problem
Post-Graduation	Bharathiar University	2001	First Class	Applied Electronics
Under Graduation	Bharathiar University	1999	First Class	Electrical and Electronics Engineering
Pre-Univ./12th	Tamil Nadu State Board	1995	Distinction	Physics, Chemistry, Mathematics
Matric/10th	Tamil Nadu State Board	1993	Distinction	Languages, Science, Social Science and Mathematics

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Member PhD Admission Committee	NIT Tiruchirappalli	28-01-2020	17-09-2021
Associate Dean (P and D)	NIT Tiruchirappalli	23-11-2015	21-11-2017
Associate Dean (Works)	NIT Tiruchirappalli	31-07-2015	11-11-2017
Building and Works Committee	NIT Tiruchirappalli	24-11-2015	11-11-2017
Authorised Signature Officer for Cheque Signing	NIT Tiruchirappalli	08-08-2014	11-11-2017
TEQIP-II Nodal Officer	NIT Tiruchirappalli	11-01-2013	14-09-2017
Estate Committee member	NIT Tiruchirappalli	19-09-2007	30-04-2008
Member of Library Core Task Committee	NIT Tiruchirappalli	03-03-2014	30-11-2017

Staff Advisor of IEEE Professional Societies	NIT Tiruchirappalli	10-03-2008	30-04-2009
Member in Construction of Estate committee	NIT Tiruchirappalli	03-09-2007	30-11-2012
Department level Committee	MTech Project Review (DPEC for 2nd Year M.Tech (Power System)), NIT Tiruchirappalli	03-08-2020	07-06-2021
Electronics lab Incharge	NIT Tiruchirappalli, EEE Department	22-06-2019	10-06-2020
Department level Committee	MTech Project Review (DPEC for 2nd Year M.Tech (Power System)),	09-06-2018	21-06-2019
Department level Committee	Laboratory Advisory Committee, NIT Tiruchirappalli, EEE Department	02-02-2020	27-02-2020
Faculty Advisor	NIT Tiruchirappalli, EEE Department	27-05-2020	20-09-2021
Class Committee Chairman	NIT Tiruchirappalli, EEE Department	09-06-2018	07-12-2018
Department level Committee (MS and PhD admission)	NIT Tiruchirappalli, EEE Department	09-06-2018	21-06-2019
Class Committee Chairman	NIT Tiruchirappalli, EEE Department	22-06-2019	06-12-2019
NBA Coordinator	NIT Tiruchirappalli, EEE Department	2011	2012
TEQIP-II Coordinator	NIT Tiruchirappalli, EEE Department	2011	Till Date
Class Committee Chairman (Liasoning)	NIT Tiruchirappalli, EEE Department	2011	Till date
PhD Admission Test Committee member	NIT Tiruchirappalli, EEE Department	2011	Till date
DPEC Member (MTech Internal Evaluation)	NIT Tiruchirappalli, EEE Department	2008	2009
B-Tech Project Coordinator	NIT Tiruchirappalli, EEE Department	2009	2010
PG admission coordinator	NIT Tiruchirappalli, EEE Department	2009	2010
Electronics Laboratory In charge (Purchase/ Repair)	NIT Tiruchirappalli, EEE Department	2007	2009
Department Library In charge	NIT Tiruchirappalli, EEE Department	2007	2008

Overall Lab development coordinator	NIT Tiruchirappalli, EEE Department	2007	2008
Computer Lab In charge (Maintenance / Setting)	NIT Tiruchirappalli, EEE Department	2006	2007

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Journal reviewer	IEEE transactions in Power Systems	2017	2018
Academic auditor	Anna university academic audit for UG program of university departments (CEG, ACT, MIT and SAP) (19/10/2020)	2020	2020
Thesis evaluation committee member	Anna university PhD thesis evaluation report of Ms. Vijayalakshmi M (25/09/2018)	2018	2018
Academic council nominee	University nominee for the academic council in KLN college of engineering, Pottapalayam 630612 (14/03/2020)	2020	2020
Member of academic course file auditor	karunya Institute of Technology and Science	2000	2000
Examination board member	Constitution of Oral Examination Board for the Conduct of Viva Voce, Centre for Research Anna University	2021	2021

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2022	Best Achiever Award	NIT Tiruchirappalli
2022	High Performing Faculty Award	NIT Tiruchirappalli

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2018	Young Faculty Reearch Fellowship	DEITY, Govt. of India	2018	2021
2012	Offered Post Doctoral fellowship (Project in	University of Limerick	-	-

	Collaboration with Irish Power grid)	Ireland		
2004	Early Faculty Induction Programme	AICTE	2006	2009
2002	MHRD Fellowship	IIT Roorkee	2002	2006

13. Details of Academic Work
   (i) Curriculum Development
   (ii) Courses taught at Postgraduate and Undergraduate levels

S. No.	Name of the theory Courses Taught
1	EEIR11-Basics of Electrical and Electronics Engineering
2	EE601-Advanced Power System Analysis
3	EEPC16- Transmission and Distribution of Electrical Energy
4	EEOE12/ EEPE Artificial Neural Networks
5	EEIR11-Basics of Electrical and Electronics Engineering
6	EE679-Swarm Intelligent Techniques
7	EELR12- Electronic Circuits Laboratory
8	EEPE12/21- Artificial Neural Networks
9	EEIR11-Basics of Electrical and Electronics Engineering
10	EEPC17-Transmission And Distribution Of Electrical Energy
11	EEPE34-Machine Learning And Deep Learning
12	EE601-Advanced Power System Analysis
13	EEIR11-Basics of Electrical and Electronics Engineering
14	EEPC17-Transmission And Distribution Of Electrical Energy

(iii)Projects guided at Postgraduate level: 72

(iv)Other contribution(s)

Sl. No.	Patent Description	Patent Filing details
1	Name of applicant: NIT, Tiruchirappalli Title: A System with Multiple transmission Loss Co-efficient for Dynamic Economic Generator Dispatch. Inventors: Sishaj P Simon, K Sundareswaran, Srinivasarao Nayak, C H Ram Jethmalani	Date of Filing: 10/07/2014 Application No: 3413/CHE/2014
	Name of applicant: BHEL, Trichy Title: A Batteryless Solar Photovoltaic Power	Date of Filing: 25/11/2014

2	Generation System to Supply Electrical Power during all Seasons to the Utilities Throughout the Day. Inventors: Kevin Ark Kumar, Sishaj P. Simon, K. Sundareswaran, Srinivasa Rao Nayak, TT Anilkumar, C.H. Ramjeth Malani & Ratchanniya Samuel	Application No: 1231/KOL/2014
3	Name of applicant: BHEL, Trichy Title: A system to determine a day-ahead loading pattern of heavy machineries in industries and proactive control of peak load overshoot Inventors: Muhammad Ehsan Rajith, Sishaj P Simon, K. Sundareswaran, P. Srinivasa Rao Nayak, Rohit Rajan Eapen, M. Senthil kumar, Kevin Ark Kumar	Date of Filing: 19-03-2016 File No.: 201631009629
4	Name of applicant: NIT, Tiruchirappalli Title: A method of differential relay for power transformer protection using DSP processor Inventors: N. P. Padhy, Sishaj P Simon, M. Senthil kumar, K. Sundareswaran, P. Srinivasa Rao Nayak	Date of Filing: 05/04/2016 File No: 201641012033
5	Name of applicant: NIT, Tiruchirappalli Title: A System for Efficient Energy Extraction from an Existing Solar Photovoltaic System Inventors: Sishaj P Simon, Mohammed Mansoor O, K. Sundareswaran, P. Srinivasa Rao Nayak	Date of Filing: 02/11/2017 File No: 201741039045

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
A 10 kW pilot Plant Based on Single Axis Solar Tracking System Using Second lever Principle	DST	27-08-2021	26-08-2023	Ongoing
Indo-Danish collaboration for data-driven Control and	DST	26-06-2019	26-06-2022	Ongoing

optimization for a highly Efficient distribution grid/id-edge				
Implementation and analysis of coupled coils at Different Structures with misalignments for WPT EV Battery Charging	DST- SERB	21-03-2018	20-03-2021	Completed
Design, Implementation and Analysis of Wireless Power Transfer and PV System for Battery Charging of Passenger E-Bus	CPRI Bangalore	17-06-2019	16-06-2021	Completed
Optimal Mix of Communication Technology for Demand Response Management in Smart Grid Applications	Visvesvaraya PhD scheme for Electronics and IT	30-9-2020	30-06-2022	Completed
Design and Development of Multi Input 10kVA Online UPS (Solar+grid+battery)	BHEL,Tiruchirappalli	16/09/2014	04/03/2015	Completed
Design and Optimization of Feedback Controller for Boost type dc-dc converters using Artificial Immune System	Central Power Research Institute From	05/01/2015	30/06/2017	Completed
A pilot project on economic demand response management through online monitoring	Science and Engineering Research Board (DST)	21/05/2013	25/11/2016	Completed
Maximum Demand Control through	Southern Railways	13/06/2013	23/03/2016	Completed

Modern Algorithms				

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
S. Hemamalini	Novel optimization techniques for economic scheduling of generating units	Supervisor	Jan' 2011
K. Chandrasekaran	Investigation on solving unit commitment problem using swarm intelligent techniques	Supervisor	Dec' 2012
C. Cristopher Columbus	Certain investigations on solving unit commitment problem using swarm based parallel models	Supervisor	Apr' 2013
S. Sreejith	Scheduling of thermal generating units incorporating facts devices using bee colony intelligent system	Supervisor	Jul' 2013
C. H. Ram Jethmalani	Investigations on transmission loss estimation in power system scheduling problems	Supervisor	Jan' 2018
Anil Kumar T T	Investigations on Pico hydel hybrid power generation system incorporating an open well energy storage	Supervisor	May' 2018
M. Senthil Kumar	Investigations on time-frequency transformation techniques for power transformer differential protection	Supervisor	Feb' 2018
J. Sathiyanarayanan	Development and Analysis of Enhanced Schemes in Traction Network of Railway Workshop	Supervisor	Jun'2019
Rohit Rajan Eapen	Economic Demand Response Management of a Secondary Distribution system	Supervisor	Apr' 2021
O.Mohammed Mansoor	Design, Experimentation, Performance And Feasibility Analysis Of Solar Photovoltaic Mirroring System	Supervisor	Aug' 2021
Venkateswarlu Gundu	Demand Response Schemes in a Distribution System Using Deep Learning Techniques	Supervisor	Apr' 2022

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

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
14.12.2018 To 16.12.2018	20th National Power Systems Conference-NPSC 2018	National	Technical Committee	NIT Tiruchirappalli	EEE Dept.
13.12.2019 To 15.12.2019	9th National Power Electronics Conference-NPEC 2019	National	Publication Chair	NIT Tiruchirappalli	EEE Dept.

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
Essence of Emergency Response Support system	National	06th - 10th April 2022	Coordinator	NITT
Fuzzy Logic and Neural Networks in Artificial Intelligence	National	28th Dec' 2020 - 01st Jan' 2021	Coordinator	NITT
Perspectives and Challenges in Outcome-Based Research	National	13th - 17th Jul' 2020	Coordinator	NITT
AICTE Margdharshan - Workshop on Recent Research Trends and Future Research Directions in Solar Energy Technologies	National	18th - 22nd May' 2020	Coordinator	NITT
FDP on Recent Advance in E-Mobility and Charging	National	19th - 23rd Jul' 2021	Coordinator	NITT
Workshop on ""Recent	National	29th Aug'	Coordinator	NITT

Developments in Electrical Power Engineering"		3rd Sep' 2016		
Workshop on "Implementation of Firefly Algorithm in SCILAB and μ-Controller"	National	10th-11th Oct' 2014	Coordinator	NITT
Workshop on Communication and Soft Skills for Engineers and Architects	National	16th- 18th June' 2014	Coordinator	NITT
Workshop on "Particle Swarm Optimization (PSO), Applications and Implementation on a Microcontroller"	National	8th Mar' 2014	Coordinator	NITT
Conclave on "Academic Enhancement in Electrical Engineering"	National	8th to 10th Nov' 2013	Coordinator	NITT
Workshop on "Fuzzy Systems and Applications"	National	13th July' 2013	Coordinator	NITT
Workshop on "Application of Biologically Inspired Algorithms for Power System and Power Electronics"	National	8th July 2012	Coordinator	NITT
Staff development Programme on " Recent Researches on Fuzzy Logic and Neural Networks	National	21st June – 3rd July 2010	Coordinator	NITT
Staff development Programme on "Engineering Practices on Fuzzy Logic, Neural Networks and Hybrid Systems"	National	15th - 27th June' 2009	Coordinator	NITT
Workshop on "Recent Trends in Modeling and Simulation in Power Systems and Power Electronics" for	National	30th - 31st Mar' 2007	Coordinator	NITT

Engineering College Teachers				
Intensive Course on "Wind Power Integration	National	20th - 27th Aug' 2007	Coordinator	NITT
Work shop on "Developing Team Work"	National	6th Oct' 2007	Coordinator	NITT

18. Invited Talks delivered

Topic	Date	Inviting Organization
Guest lecture on "Swarm Intelligence"	12/10/2007	ECE Association function of EGS Pillay Engineering College, Nagapattinam, Tamil Nadu
Speech on "Neural Networks and Applications in Electrical Power"	2/01/2008	Indian Institute of Industrial Engineering, Trichy Zone (Near BHEL)
Guest lecture on "Artificial Neural Network and Applications"	21/08/2008	Sengunthar Engineering College
Guest lecture on "Swarm Intelligence and Deregulation of Power Industry"	16/10/2008	National Engineering College, Kovilpatti, Tamilnadu
Guest Lecture on "Intelligent Computational Techniques for Power Industry" on AICTE-ISTE sponsored short term training programme on "Computational Techniques for Power Electronics and Power Systems- CTPEPS-09"	20/03/2009.	Adhiparasakthi Engineering College, Melmaruvathrur-603319, Tamilnadu
Guest Lecture on "Matlab – Fuzzy & ANN Toolkit"	16.04.2009	IRTT Erode
Resource lecture on "Ant Intelligence" for AICTE Sponsored National Seminar, Intelligent System Applications to Future Challenges in Power Engineering on.	11/09/2009	PEC, Pondicherry,
Guest Lecture on "Bio-Inspired Intelligent System for IIR Filter Design" in	21/11/2009	Hindustan college of Engineering and Technology, Coimbatore ,India.

the National Level workshop organized by Department of Electrical and Communication Engineering,		
Guest Inaugural and key note address on "AI and its Applications"	10/02/2010	National Seminar organized by organized by Department of EEE and ECE, Nehru college of Engineering and Research Centre, Pampady, Thrissur District, Kerala, India.
Guest lecture on " Computational Intelligence and Artificial Neural Networks in Power System"	07/08/2010	Vicram college of Engineering, Madurai on
Special Lecture on "De-regulated Power Market" in the National level workshop on " Virtual Instrumentation, Distributed Generation and Deregulated Market"	08/01/2011	Angel College of Engineering and Technology, Tirupur on
Guest Lecture on "Deregulation of Power System" in the two day workshop on "Insight into Smart Grid and its Applications"	05/02/2011	Kumara Guru College of Technology, Coimbatore
Guest lecture on " Application on Intelligent techniques in the Analysis and Design of Electrical Systems"	29/04/2011	KSR college of Engineering, Tiruchengode, Tamilnadu
Guest Lecture delivered on "Intelligent Controllers".	06/08/2011	Sethu Institute of Technology, Virudhunagar, Tamilnadu on
Guest Lecture delivered on "Power Systems"	19/08/2011	St. Joseph college of Engineering & Technology, Thanjavur, Tamilnadu
Guest Lecture on "Evolution of Smart Grids" on, One Day Pre-Conference Tutorial on "Smart Grid Systems" as a part of "International Conference on Renewable Energy Utilization	26/09/2011	at Coimbatore Institute of Technology, Coimbatore

(ICREU)"– 2012		
Guest Lecture delivered on "Application of Ant Colony Optimization" for the two day National technical seminar of Application of Metaheuristics for Engineering Optimization"	20/03/2012	College of Engineering, Anna University, Chennai.
Guest Lecture delivered on "Meta-Heuristic Algorithm & Ant Colony Technique with Suitable Case Studies"	8/12/2012	R.M.K College of Engineering and technology, Chennai
Guest lecture on "Smart Grids" on for the workshop on "Power Electronics in Distributed Generation"	9/2/2014	Department of Electrical Engineering at National Institute of Technology, Suratkal, Karnataka.
Guest lecture on "Application of Artificial Intelligence Techniques on Unit Commitment Problem" on	15/07/2014	Department of Electrical Engineering at S.V. National Institute of Technology, Surat, Gujarat.
Guest lecture on "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
Life Member	System Society of India	LM30283
Life Member	Indian Society of Technical Education	LM68331
Life Member	Solar Energy Society of India	LM/1439/2010

20. Academic Foreign Visits

Country	Duration of Visit	Programme
United Kingdom	06-09-2011 to 08-09-2011	The IET Renewable Power Generation Conference 2011 (RPG-2011)
USA	16-04-2008 to 18-09-2008	Chaired the session "Electricity Market" at the Tenth IASTED International Conference on "Power and Energy

		System" held at Baltimore, USA April 16, 2008 –April 18, 2008. Also presented a research paper at the Tenth International Conference on Power and Energy Systems (PES-2008), International Association of Science and Technology for Development
Singapore	12/11/2007 to 11/12/2007	TEQIP Training for one month (Nov 12th 2007 –Dec 11th 2007) on "Artificial Intelligence" in the Game Lab, School of Computer Engineering at Nanyang Technological University, Singapore
Israel	16/11/2016 to 18/11/2016	Attended ICSEE 2016 Conference

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Mallikarjuna Golla, S Sankar, K Chandrasekaran, Sishaj P Simon, Narayana Prasad Padhy	An Integrated Power Control Module for Photovoltaic Sources in DC Microgrid System	International Journal of Electrical Power & Energy Systems	Vol. 142		2022/11/1	
Sreenu Sreekumar, Sumanth Yamujala, Kailash Chand Sharma, Rohit Bhakar, Sishaj P. Simon, Ankur Singh Rana,	Flexible Ramp Products: A solution to enhance power system flexibility	Renewable and Sustainable Energy Reviews	Vo. 162		2022	
Mallikarjuna Golla, S Thangavel, Sishaj Pulikottil Simon, Narayana Prasad Padhy	An Enhancement of Power Quality With Efficient Active Power Transfer Capability in a PV–BSS-Fed UAPF for Microgrid Realization	IEEE Systems Journal,			2022/6/9	
M. Golla, S.	A Novel Control	IEEE			2022	

Thangavel, S. P. Simon and N. P. Padh	Scheme using UAPF in an Integrated PV Grid-tied System	Transactions on Power Delivery				
Satheesh Krishnan, G., Sundareswaran, K. & Simon, S.P.	Increased Energy Harvesting from shaded PV power plant using a fast converging Fruit fly Algorithm	Inst. Eng. India Ser. B		pp.1-11	2022/4/21	
Gundu, V., Simon, S.P	Quality analysis of combined similar day and day ahead short-term load forecasting using recurrent neural networks	Sādhanā	vol. 47	pp. 1-11	3/2022	
Golla, M., Thangavel, S. & Simon, S.P.	FPGA Implementation of High-Efficiency Dynamic MPPT Controller for Wind Energy Conversion System Using Neural Networ	Arab J Sci Eng		pp. 1-16	2022/4/19	
Mallikarjuna Golla, S Thangavel, K Chandrasekaran, Sishaj P Simon	Real-Time Implementation of PV fed Universal Active Power Filter Using CF-SOGI based IPBT Control Scheme	Electric Power Systems Research	Vol. 206,		May 2022	
Venkateswarlu Gundu, Sishaj P Simon	Short Term Solar Power and Temperature Forecast Using Recurrent Neural Networks	Neural Processing Letters	Vol. 24	PP. 1-12	25/08/2021	
Senthil kumar Murugan, Sishaj P Simon, Rohit Rajan Eapen	A Novel Signal Localized Convolution Neural Network for Power Transformer Differential Protection	IEEE Transactions on Power Delivery			2021/5/17	
Kevin Ark Kumar and T. Sriharsha R. Muhammad Ehsan, Sishaj P. Simon, K. Sundareswaran	Effect of Soiling on Photovoltaic Modules and Its Mitigation Using Hydrophobic Nano coatings	IEEE Journal of Photovoltaics,			04/2021.	
Mallikarjuna Golla, K Chandrasekaran, Sishaj P Simon	"PV integrated universal active power filter for power quality enhancement and	Energy for Sustainable Development, Elsevier	Vol. 61	pp. 104-117	1/04/2021	

	effective power management					
Venkateswarlu Gundu, Sishaj P Simon	PSO–LSTM for short term forecast of heterogeneous time series electricity price signals	Journal of Ambient Intelligence and Humanized Computing, Springer Berlin Heidelberg,	Vol. 12	pp. 2375-2385	02/2021	
Venkateswarlu Gundu, Sishaj Pulikottil Simon, Kinattingal Sundareswaran, Srinivasa Rao Nayak Panugothu	Gated recurrent unitbased demand response for preventing voltage collapse in a distribution system	Turkish Journal of Electrical Engineering & Computer Sciences	Vol. 26	pp. 3319-3334.	2020/11/30	
Satheesh Krishnan Gopalakrishnan, Sundareswaran Kinattingal, Sishaj Pulikottil Simon	MPPT in PV Systems Using PSO Appended with Centripetal Instinct Attribute	Electric Power Components and Systems	Vol. 48	pp. 881-891,	2020/10/19	
Satheesh Krishnan G, Sundareswaran Kinattingal, Sishaj P Simon, Panugothu Srinivasa Rao Nayak	MPPT in PV systems using ant colony optimisation with dwindling population	IET Renewable Power Generation,	Vol.14,	pp. 1105-1112,	2020/10/19	
K. Sundareswaran J. Sathiyanarayanan, Sishaj P. Simon	Energy Audit in a Railway Traction Substation (A Real Case Study	J. Inst. Eng. India Ser. B	Vol.101(4)	pp.411–416,	August 2020	
Mohammed Mansoor Odungat, Sishaj Pulikottil Simon, Kevin Ark Kumar, Kinattingal Sundareswaran, Panugothu Srinivasarao Nayak, Narayana Prasad Padhy	Estimation of system efficiency and utilisation factor of a mirror integrated solar PV system.	IET Renewable Power Generation	Vol.10,	pp.1677-1687.	2020/7/23	

Satheesh Krishnan Gopalakrishnan, Sundareswaran Kinattingal, Sishaj Pulikottil Simon, Kevin Ark Kumar	Enhanced energy harvesting from shaded PV systems using an improved particle swarm optimisation.	IET Renewable Power Generation	Vol.14.9,	pp. 1471-1480,	2020/7/1	
Venkateswarlu Gundu, Sishaj P Simon	"A novel energy routing technique with hybrid energy storage for residential electricity cost minimization in a smart distribution network	Energy sources, part A: Recovery, utilization, and environmental effects		pp. 1-18	2020/6/19	
K Chandrasekaran, Madhusmita Mohanty, Mallikarjuna Golla, A Venkadesan, Sishaj P Simon	Dynamic MPPT Controller Using Cascade Neural Network for a Wind Power Conversion System with Energy Management	IETE Journal of Research,		pp. 1-15	2020/6/19	
Sishaj P Simon, Kevin Ark Kumar, Kinattingal Sundareswaran, P Srinivasa Rao Nayak, Narayana Prasad Padhy	"Impact and economic assessment on solar PV mirroring system– A feasibility report."	Energy Conversion and Management	Vol.203	pp. 112-222	2020/1/1	
Madhusmita Mohanty, Sankar Selvakumar, Chandrasekaran Koodalsamy, Sishaj Pulikottil Simon	Global maximum operating point tracking for PV system using fast convergence firefly algorithm	Turkish Journal of Electrical Engineering & Computer Sciences	Vol. 27	pp. 4640-4658	2019/12/1	
Senthil Kumar Murugan, Sishaj Pulikottil Simon, Kinattingal Sundareswaran, Srinivasa Rao Nayak Panugothu,	Hardware-in-the Loop Testing of Power Transformer Differential Relay Using RTDS and DSP	Electric Power Components and Systems	Vol. 47	pp. 1090-1100	2019/7/21	

Narayana Prasad Padhy						
Rohit Rajan Eapen, Sishaj Pulikottil Simon, Kinattingal Sundareswaran, Panugothu Srinivasarao Nayak	User centric economic demand response management in a secondary distribution system in India	IET Renewable Power Generation	vol. 13	pp.834-846	22/04/2019	
Rohit Rajan Eapen, Sishaj Pulikottil Simon	Performance analysis of combined similar day and day ahead short term electrical load forecasting using sequential hybrid neural networks	IETE Journal of Researc	Vol. 65	pp. 216-226,	4/03/2019	
CH Ram Jethmalani, Sishaj P Simon, K Sundareswaran, P Srinivasa Rao Nayak, Narayana Prasad Padhy	Real coded genetic algorithm based transmission system loss estimation in dynamic economic dispatch problem	Alexandria engineering journal	vol. 57	pp. 3535-3547	1/12/2018	
Ram Jethmalani C Hemparuva, Sishaj P Simon, Sundareswaran Kinattingal, Narayana Prasad Padhy	Geographic information system and weather based dynamic line rating for generation scheduling	Engineering Science and Technology, an International Journal	vol, 21	pp. 564-573	1/8/2018	
Sankar Selvakumar, Mohanty Madhusmita, Chandrasekaran Koodalsamy, Sishaj Pulikottil Simon, Yog Raj Sood	High-speed maximum power point tracking module for PV systems	IEEE Transactions on Industrial Electronics	vol. 62	pp. 1119-1129	3/5/2018	
K.Sundareswaran J. Sathiyanarayanan, Sishaj P. Simon	Hybrid compensator for static and relative powers Of railway power system stabilizer with unified Traction system control	Journal of Advanced Research in Dynamical and Control Systems	Vol. 9.		2017/12	

R Muhammad Ehsan, Sishaj P Simon, PR Venkateswaran	Day-ahead forecasting of solar photovoltaic output power using multilayer perceptron	Neural Computing and Applications,	Vol. 28.	pp. 3981-3992,	12/2017	
Anilkumar T.T., Srinivasa Rao Nayak Panugothu and Sishaj P Simon	Experimental İnvestigation on a Prototype Solar-Wind Hybrid System with a Pico Hydro Turbine	International Journal of Emerging Electric Power Systems	Vol, 18, no. 5		2017/10/1	
C. H. Ram Jethmalani, S. P. Simon, K. Sundareswaran, P. S. R. Nayak and N. P. Padhy,	"Auxiliary Hybrid PSO-BPNN-Based Transmission System Loss Estimation in Generation Scheduling	IEEE Transactions on Industrial Informatics	vol. 13, no. 4	pp. 1692-1703,	Aug. 2017	
Anilkumar T.T., Sishaj P Simon and Narayana Prasad Padhy,	Residential Electricity Cost Minimization Model through Open Well-Pico Turbine Pumped Storage System	Elsevier publication Applied Energy	Vol. 195	pp. 23-35,	2017/6/1	
S Sreejith and Sishaj P Simon,	Security Constrained Unit Commitment Incorporating Interline Power Flow Controller	Periodica Polytechnica. Electrical Engineering and Computer Science	Vol. 61, no. 1	pp. 22-33	2017/2/10	
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A Sriram, P R Venkateswaran, Sishaj P Simon	Artificial neural network predictor for induced draft fan power consumption in thermal power plants	International Conference on Power and Embedded Drive Control (ICPEDC)				2017
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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, India,				03-06th Jan. 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), Thrissur, Kerala, India,	pp. 1-6			January 03- 06, , 2012
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K Chandrasekaran, Sishaj P Simon	Unit commitment problem for Hybrid power system using Binary/Real-coded PSO	International Conference on Future Electrical Power and Energy Systems				2012
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, IConRAEeCE '11, IEEE Conference,	pp. 5-12			2011

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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)	Dr. M.G.R. University, Chennai, July. 20-22, 2011	pp: 63-68			
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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, Chennai, India,	pp. 338-343			July 28-29, 2010
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K Chandrasekaran and Sishaj P Simon	Reliability Constrained Unit Commitment using Genetic Algorithm	International Conference on Recent Advancements in Electrical Sciences (ICRAES '10), India					8th -9th, Jan 2010
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), IIT Roorkee	pp 514 – 520			Feb 21- 23, 2002
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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, IIT Roorkee, Roorkee,	pp 104-108			Oct 2005
S P Simon, N P Padhy and R S Anand	Max-Min Ant System Model for Unit Commitment	International Conference Challenges and	pp. 88-99			June 10 - 11, 2006

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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	pp. 27-29			Dec. 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, Montreal, Quebec CANADA				June 18 - 22, 2006
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, India	pp. 87-91			2008
B Vanaja, S Hemamalini and Sishaj P Simon	Genetic Algorithm based Economic Load Dispatch with Value point Effect	Tenth IASTED International Conference on "Power and Energy System" held at Baltimore, USA	pp. 210-214			16,2008 –April 18,2008
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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				Dec. 21-22, 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, IEEE region - 10, Singap				Nov 23-26, 2009
B Vanaja, S Hemamalini and Sishaj P Simon	Artificial Immune Based Economic Load Dispatch with Valve-Point Effect	IEEE Technical Conference, TENCON-2008, IEEE region - 10, University of Hyderabad				Nov 18-21, 2008
S Hemamalini and Sishaj P Simon	Emission Constrained Economic Dispatch with Valve-Point Effect using Particle Swarm Optimization	IEEE Technical Conference, TENCON-2008, IEEE region - 10, University of Hyderabad				Nov 18-21, 2008

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
N.P. Padhy & S.	Soft Computing With	Oxford	14/05/2015	9780199455423

P. Simon	MATLAB Programming	University Press		
Sishaj Pulikottil Simon,Narayana Prasad Padhy,Jong-Bae Park, et.,	"Power System Planning and Operation" Book chapter	John Wiley & Sons, Inc, 2020	27-03-2020	9781119602293