

# Sishaj P Simon

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## Research Publications

- MPPT in PV Systems Using PSO Appended with Centripetal Instinct Attribute** 2020  
SK Gopalakrishnan, S Kinattingal, SP Simon  
Electric Power Components and Systems, 1-11
- Gated recurrent unit based demand response for preventing voltage collapse in a distribution system** 2020  
SP VENKATESWARLU GUNDU, SISHAJ PULIKOTTIL SIMON, KINATTINGAL SUNDARESWARAN  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES Turk J Elec ...
- PSO–LSTM for short term forecast of heterogeneous time series electricity price signals** 2020  
V Gundu, SP Simon  
Journal of Ambient Intelligence and Humanized Computing, 1-11
- A novel energy routing technique with hybrid energy storage for residential 1 electricity cost minimization in a smart distribution network** 2020  
V Gundu, SP Simon  
Energy sources, part A: Recovery, utilization, and environmental effects, 1-18
- Dynamic MPPT Controller Using Cascade Neural Network for a Wind Power Conversion System with Energy Management** 2020  
K Chandrasekaran, M Mohanty, M Golla, A Venkadesan, SP Simon  
IETE Journal of Research, 1-15
- POWER SYSTEM PLANNING AND OPERATION** 2020  
SP Simon, NP Padhy, JB Park, KY Lee, M Zhou, S Xia, APA da Silva, ...  
Applications of Modern Heuristic Optimization Methods in Power and Energy ...
- Estimation of system efficiency and utilisation factor of a mirror integrated solar PV system** 2020  
MM Odungat, SP Simon, KA Kumar, K Sundareswaran, PS Nayak, ...  
IET Renewable Power Generation 14 (10), 1677-1687
- Enhanced energy harvesting from shaded PV systems using an improved particle swarm optimisation** 2020  
SK Gopalakrishnan, S Kinattingal, SP Simon, KA Kumar  
IET Renewable Power Generation
- MPPT in PV systems using ant colony optimisation with dwindling population** 2020  
S Kinattingal, SP Simon, PSR Nayak  
IET Renewable Power Generation 14 (7), 1105-1112
- Maximum Power Point tracking in PV Systems using Plant Reproduction algorithm** 2020  
GS Krishnan, PT Bijilesh, SP Simon, GV Puthusserry, EK Midhun, ...  
2020 IEEE International Conference on Power Electronics, Smart Grid and ...
- Impact and economic assessment on solar PV mirroring system—A feasibility report** 2020  
SP Simon, KA Kumar, K Sundareswaran, PSR Nayak, NP Padhy  
Energy Conversion and Management 203, 112222
- Analysis of Mutual Inductance Between Rectangular Structured Wireless** 2019

## Coupled Coils with Different Misalignments Using Finite Element Modeling

SRN Panugothu, P Gundugallu, T Manikandan, D Ekalavya, SP Simon  
2019 National Power Electronics Conference (NPEC), 1-5

## Global maximum operating point tracking for PV system using fast convergence firefly algorithm.

M Mohanty, S Selvakumar, C Koodalsamy, S Simon  
Turkish Journal of Electrical Engineering & Computer Sciences 27 (6)

2019

## Hardware-in-the Loop Testing of Power Transformer Differential Relay Using RTDS and DSP

SK Murugan, SP Simon, K Sundareswaran, SRN Panugothu, NP Padhy  
Electric Power Components and Systems 47 (11-12), 1090-1100

2019

## Performance analysis of combined similar day and day ahead short term electrical load forecasting using sequential hybrid neural networks

RR Eapen, SP Simon  
IETE Journal of Research 65 (2), 216-226

2019

## Experimental Evaluation of Electric Driven Butter Extraction System

A Annamalai, K Sundareswaran, SP Simon, KA Kumar  
2019 IEEE International Conference on Electrical, Computer and Communication ...

2019

## A Novel Technique for Sensor Less Speed Estimation of Variable Voltage Induction Motor Drive via Neural Networks

K Sundareswaran, CH Ram Jethmalani, SP Simon, K Sundareswaran, ...  
Elementary Concepts of Power Electronic Drives 13 (4), v-v

2019

## A Design Proposal for Butter Extraction System

A Annamalai, K Sundareswaran, SP Simon, KA Kumar  
2018 IEEE International Conference on Power Electronics, Drives and Energy ...

2018

## Real coded genetic algorithm based transmission system loss estimation in dynamic economic dispatch problem

CHR Jethmalani, SP Simon, K Sundareswaran, PSR Nayak, NP Padhy  
Alexandria engineering journal 57 (4), 3535-3547

2018

## User centric economic demand response management in a secondary distribution system in India

RR Eapen, SP Simon, K Sundareswaran, PS Nayak  
IET Renewable Power Generation 13 (6), 834-846

2018

## Geographic information system and weather based dynamic line rating for generation scheduling

RJC Hemparuva, SP Simon, S Kinattingal, NP Padhy  
Engineering Science and Technology, an International Journal 21 (4), 564-573

2018

## High-speed maximum power point tracking module for PV systems

S Selvakumar, M Madhusmita, C Koodalsamy, SP Simon, YR Sood  
IEEE Transactions on Industrial Electronics 66 (2), 1119-1129

2018

## Performance Evaluation of Square Coupled Coils at Different Misalignments for Electric Vehicle Battery Charging.

PSR Nayak, K Dharavath, R Dey, K Sundareswaran, SP Simon  
VEHITS, 290-297

2018

## Hybrid Compensator For Static and Relative Powers of Railway Power System Stabilizer with Unified Traction System Control

KS J. Sathiyarayanan, Sishaj P. Simon  
Journal of Advanced Research in Dynamical and Control Systems 18 (Special ...

2017

## Energy Audit in a Railway Workshop(A Practical Case Study)

KS J. Sathiyarayanan, Sishaj P. Simon  
Journal of Advanced Research in Dynamical and Control Systems 18 (Special ...

2017

<b>Energy Audit In a Railway Traction Substation (A Real Case Study)</b> J Sathiyarayanan, SP Simon, K Sundareswaran Journal of Advanced Research in Dynamical and Control Systems 9 (Special ...	2017
<b>Day-ahead forecasting of solar photovoltaic output power using multilayer perceptron</b> RM Ehsan, SP Simon, PR Venkateswaran Neural Computing and Applications 28 (12), 3981-3992	2017
<b>Experimental investigation on a prototype solar-wind hybrid system with a Pico hydro turbine</b> TT Anilkumar, SP Simon International Journal of Emerging Electric Power Systems 18 (5)	2017
<b>Residential electricity cost minimization model through open well-pico turbine pumped storage system</b> TT Anilkumar, SP Simon, NP Padhy Applied energy 195, 23-35	2017
<b>Prediction of induced draft fan power consumption in 500MW steam generators using artificial neural network</b> A Sriram, PR Venkateswaran, SP Simon 2017 International Conference on Big Data Analytics and Computational ...	2017
<b>Artificial neural network predictor for induced draft fan power consumption in thermal power plants</b> A Sriram, PR Venkateswaran, SP Simon 2017 International Conference on Power and Embedded Drive Control (ICPEDC ...	2017
<b>Pico-hydel hybrid power generation system with an open well energy storage</b> AT Thankappan, SP Simon, PSR Nayak, K Sundareswaran, NP Padhy IET Generation, Transmission & Distribution 11 (3), 740-749	2017
<b>Security Constrained Unit Commitment Incorporating Interline Power Flow Controller</b> S Sreejith, SP Simon Periodica Polytechnica Electrical Engineering and Computer Science 61 (1), 22-33	2017
<b>Auxiliary hybrid PSO-BPNN-based transmission system loss estimation in generation scheduling</b> RJ CH, SP Simon, K Sundareswaran, PSR Nayak, NP Padhy IEEE Transactions on Industrial Informatics	2017
<b>Genetic Algorithm based Feature Selection for Classification of Focal and Non-focal Intracranial Electroencephalographic Signals</b> E Sathish, N Sivakumaran, SP Simon, S Raghavan NISCAIR-CSIR, India	2017
<b>Multiobjective economic load dispatch problem using A-loss coefficients</b> D Poornima, SP Simon, B Sonia, T Sunita Int. J. Pure Appl. Math 114 (8), 143-153	2017
<b>Gravitational search algorithm combined with P&amp;O method for MPPT in PV systems</b> K Sundareswaran, V Vigneshkumar, SP Simon, PSR Nayak 2016 IEEE Annual India Conference (INDICON), 1-5	2016
<b>Cascaded simulated annealing/perturb and observe method for MPPT in PV systems</b> K Sundareswaran, VV Kumar, SP Simon, PSR Nayak 2016 IEEE International Conference on Power Electronics, Drives and Energy ...	2016
<b>Channel measurement and time dispersion analysis for outdoor mobile ultrawideband environment</b> S Nunoo, U CHUDE-OKONKWO, R Ngah, C Chude-Olisah, Y ZAHEDI Turkish Journal of Electrical Engineering and Computer Science 24 (6), 4555-4568	2016

- Firefly algorithm with multiple workers for the power system unit commitment problem** 2016  
B Koodalsamy, MB Veerayan, C Koodalsamy, SP Simon  
Turkish Journal of Electrical Engineering & Computer Sciences 24 (6), 4773-4789
- Performance analysis of empirical Fourier transform based power transformer differential protection** 2016  
SP Simon, MS Kumar, K Sundareswaran, CC Columbus  
2016 IEEE International Conference on the Science of Electrical Engineering ...
- Auxiliary hybrid PSO-BPNN-based transmission system loss estimation in generation scheduling** 2016  
CHR Jethmalani, SP Simon, K Sundareswaran, PSR Nayak, NP Padhy  
IEEE Transactions on Industrial Informatics 13 (4), 1692-1703
- Power transformer protection using chirplet transform** 2016  
SK Murugan, SP Simon, PSR Nayak, K Sundareswaran, NP Padhy  
IET Generation, Transmission & Distribution 10 (10), 2520-2530
- Gravitational search algorithm-based dynamic economic dispatch by estimating transmission system losses using A-loss coefficients** 2016  
RAMJC HEMPARUVA, SP Simon, S Kinattingal, SRN Panugothu  
Turkish Journal of Electrical Engineering & Computer Sciences 24 (5), 3769-3781
- An empirical Fourier transform-based power transformer differential protection** 2016  
SK Murugan, SP Simon, K Sundareswaran, PSR Nayak, NP Padhy  
IEEE Transactions on Power Delivery 32 (1), 209-218
- Transmission loss calculation using a and b loss coefficients in dynamic economic dispatch problem** 2016  
CHR Jethmalani, P Dumpa, SP Simon, K Sundareswaran  
International Journal of Emerging Electric Power Systems 17 (2), 205-216