



# IEEE International Conference on Power System Technology, POWERCON-2020

MONDAY  
Sept 14, 2020

Time

Paper Track 1

## Reliability and Resiliency:

**Paper ID - 205;** Duncan K. Maina, "*Electricity Distribution Resilience Assessment for Potential Seismic Event in New Zealand*"

**Paper ID - 204;** Sakthivelnathan Nallainathan, "*Reliability Evaluation of Renewable-rich Microgrids using Monte Carlo Simulation considering Resource and Equipment Availability*"

**Paper ID - 30;** Sitara Kumbale, "*Component Level Reliability Evaluation of Boost Converter, Z-Source, and Improved Gamma Type Y-Source Inverters*"

**Paper ID - 210;** Manohar P, "*Evaluation of Impact of Low Discrepancy Sequences on Predictive Reliability Assessment of Distribution System*"

**Paper ID - 195;** Md Zakaria Habib, "*Impact of the fault location methods on SAIDI of a resonant-earthed distribution system*"

Paper Track 2

12.00  
to  
13.30

## Measurement and Condition Monitoring:

**Paper ID - 346;** Dr. T.Bhavani Shanker, "*In- situ On-line Acoustic Emission Measurement and Off-line Recovery Voltage Measurement for periodic condition monitoring of oil-filled 220kV transformers- comparison of results*"

**Paper ID - 67;** Katam Nishanth, "*Estimation of Ozone Generation in Dielectric Barrier Discharge Plasma using Response Surface Methodology and Fuzzy Logic*"

**Paper ID - 329;** Hanna Susan Thomas, "*Investigation on aged transformer oil samples using Tin oxide (SnO<sub>2</sub>) nanoparticles*"

**Paper ID - 196;** Krishanlal Adhikari, "*Development of Optical Fiber Sensor for Partial Discharge Detection in High Voltage Power Transformers*"

**Paper ID - 277;** Sampath Ediriweera, "*Effect of the Shape of the Cross Section of the Solid Insulators Immersed in Coconut Oil on the Area and the Dimension of Creeping Discharge Propagation*"

Time	Paper Track 3
15.30 to 17.00	<p><b><u>Power System Analysis, Modelling and Simulation:</u></b></p> <p><b>Paper ID - 260;</b> Aman Gautam, "<i>Analyses of Indian Power System Frequency</i>"</p> <p><b>Paper ID - 316;</b> Samya Deb Bhattacharya, "<i>IEEE PSS4B implementation in Static Excitation System and Hardware-in-Loop Testing with RTDS</i>"</p> <p><b>Paper ID - 286;</b> Veerabrahmam Bathini, "<i>An Accurate and Efficient Voltage Behind Reactance Induction Machine Model based on Shifted Frequency Analysis</i>"</p> <p><b>Paper ID - 337;</b> Vinay Chindu T S, "<i>Effect of Perturbation of Switching Instants on State Transition Matrices of Power Systems with Power-Electronic Controllers</i>"</p> <p><b>Paper ID - 275;</b> Byungkwon Park, "<i>Performance and Feature Improvements in Parareal-based Power System Dynamic Simulation</i>"</p>
	<p><b>Paper Track 4</b></p> <p><b><u>Operation and Control of Microgrids:</u></b></p> <p><b>Paper ID - 144;</b> Juhi Datta, "<i>Stochastic Energy Management of grid-connected microgrid considering battery degradation cost and renewables penetration</i>"</p> <p><b>Paper ID - 108;</b> Utsav Patel, "<i>Control and Operation of a Small Autonomous DC Microgrid with Improved Dynamic Performance</i>"</p> <p><b>Paper ID - 94;</b> Raghumanth A, "<i>A Minimally Disruptive D-C Micro Grid for Hybrid Consumer Applications</i>"</p> <p><b>Paper ID - 124;</b> Saurabh Sharma, "<i>Study and Improvement of AC Microgrid Stability Using GSA</i>"</p> <p><b>Paper ID - 32;</b> Pranjal Sen, "<i>Optimal operation of grid-connected microgrid with renewable generation and battery energy storage</i>"</p>
<p><b>TUESDAY</b> <b>Sept 15, 2020</b></p>	
Time	Paper Track 5
12.00 to 13.30	<p><b><u>Distribution Systems:</u></b></p> <p><b>Paper ID - 248;</b> Xin Liu, "<i>Review on D-PMU based applications for active electricity distribution system</i>"</p> <p><b>Paper ID - 287;</b> Changyu Chen, "<i>Anomaly Detection of Pollution Control Equipment Based on AMI Data Analytics</i>"</p> <p><b>Paper ID - 161;</b> Roshan Pradhan, "<i>Model Predictive Control based PVDG system with integrated power quality features</i>"</p> <p><b>Paper ID - 328;</b> Olav Bjarte Fosso, "<i>PyDSAL - Python Distribution System Analysis Library</i>"</p> <p><b>Paper ID - 26;</b> Firdous Ul Nazir, "<i>ADMM Based Distributed Load Flow for Radial Power Networks</i>"</p>

## Paper Track 6

### Power Electronics and Drives:

**Paper ID - 246;** Drisya K Sasi, "*Interleaved Bidirectional DC/DC Converter Topologies for Solar based Standalone Distributed Generation Systems*"

**Paper ID - 74;** Afsher P A, "*DC-Link Voltage Balancing and Regulation of Split Capacitor VSI Based DSTATCOM*"

**Paper ID - 100;** Kapil Upamanyu, "*Power Electronic Based Emulation of Synchronous Generator with Improved Accuracy*"

**Paper ID - 298;** Manoj A. Waghmare, "*Single-phase to Three-phase Multilevel Matrix Converter (1x3 M2C) for Induction Motor Drive*"

**Paper ID - 49;** Arpan Malkhandi,, "*LQG Based Augmented Control for Stability Enhancement of a Grid Tied Inverter*"

Time

## Paper Track 7

### Smart Grid Technologies:

**Paper ID - 309;** Dodla Sidhartha, "*Secure and Fault-tolerant Advanced Metering Infrastructure*"

**Paper ID - 283;** Chetan Kumar Kuraganti, "*A Distributed Hierarchy Based Framework for Validating Edge Devices Performing State Estimation in a Power System*"

**Paper ID - 223;** Shinjan Mitra, "*CEnTrA: City-scale Energy Transaction Application for the Smart Grid*"

**Paper ID - 301;** Anshu Prakash Murdan, "*Wi-Fi and LoRaWAN based interactive control system for household energy management*"

**Paper ID - 251;** Mohammad Razeghi-Jahromi, "*Distributed Optimal Voltage Regulation for Distribution Networks with DGs at the Energy Delivery Grid Edge with Limited Information Exchange*"

15.30  
to  
17.00

## Paper Track 8

### Electric Mobility:

**Paper ID - 254;** Prasanta Kumar Mohanty, "*Home Electric Vehicle Charge Scheduling Using Machine Learning Technique*"

**Paper ID - 105;** Shwetha Katari J, "*A Concise review of different standards for performance testing of Lithium-ion Batteries for Electric Vehicle applications*"

**Paper ID - 25;** Namitha Murali, "*Sizing and Performance Analysis of an Electric Motor in an E-rickshaw*"

**Paper ID - 193;** Erdem Gumrukcu", "*Optimized Allocation of Loads in MMC-based Electric Vehicle Charging Infrastructure*"

**Paper ID - 64;** Nicolas Fatras, "*Suitability assessment of electricity market mechanisms for electric vehicle grid integration*"

WEDNESDAY

Sept 16, 2020

Time

Paper Track 9

**Grid Integration of Renewables:**

**Paper ID - 19;** Yi Tang, "*Evaluation method of maximum wind penetration level considering static voltage stability constraint*"

**Paper ID - 153;** Raviraj P. Raj, "*Evaluating The Ramping Trends And Noisy Fluctuations From Solar Power Imbalances*"

**Paper ID - 78;** Debesh Shankar Tripathy, "*Short-Term PV Generation Forecasting Using Quantile Regression Averaging*"

**Paper ID - 318;** Kalpana Shanmugam, "*Gridcode compliances and Operational Requirements of Grid connected BESS-Renewable Power Plants*"

**Paper ID - 99;** Dhanuja Lekshmi J, "*Voltage-dip Induced Frequency Excursions in Solar PV Power Integrated Power System*"

Paper Track 10

12.00  
to  
13.30

**Power System Protection:**

**Paper ID - 96;** Soumya Kanta, "*Evaluation of Controlled Energization Zone of a Circuit Breaker using Binary Search Algorithm*"

**Paper ID - 208;** Karam Husen Khan, "*Optimal Coordination of Directional Overcurrent Relays using Enhanced L-SHADE Algorithm*"

**Paper ID - 314;** Ritesh Rawat, "*A modified SFCL model performance investigation for a three-phase transmission network*"

**Paper ID - 227;** Neethu George, "*Estimation of zero-sequence impedance parameters in double-circuit lines using disturbance recorder data*"

**Paper ID - 288;** T P Vishnu, "*Condition Monitoring of Zigzag Transformers in Composite Transmission Lines for Enhanced Transfer of Combined AC and DC Power*"

WEDNESDAY

Sept 16, 2020

Time

Paper Track 11

**Energy Markets:**

**Paper ID - 269;** Nishan Withana, "*Financial Feasibility of Battery Storage based Approach for Renewable Rich Distribution Feeders*"

**Paper ID - 183;** Nilesh Hadiya, "*A Comparative Analysis of Pricing Mechanisms to Enable P2P Energy Sharing of Rooftop Solar Energy*"

**Paper ID - 264;** Vikram Cherala, "*Peer-to-Peer Energy Sharing Model for Interconnected Home Microgrids*"

**Paper ID - 130;** David Oweka, "*Optimal Generation Scheduling Approach Applied to the Transmission Grid of Uganda for Enhanced Performance and Cost Reduction*"

**Paper ID - 173;** Subhasis Thakur, "*Real-time Peer to Peer Energy Trade with Blockchain Offline Channels*"

15.30  
to  
17.00

Paper Track 12

**Power System Optimization and Machine Learning:**

**Paper ID - 311;** Khagendra Bahadur Thapa, "*Enhanced Low Voltage Ride-Through Control Capability of a DFIG-Based Wind Power Plant*"

**Paper ID - 335;** Inam Ullah Khan, "*Optimal Power Flow Solution with Uncertain RES using Augmented Grey Wolf Optimization*"

**Paper ID - 237;** Safwan Wshah, "*Deep Learning for Model Parameter Calibration in Power Systems*"

**Paper ID - 233;** Razib Hasan, "*Optimization of Transformer Sparing and Replacement Strategies using Probabilistic Simulation*"