

POWERCON 2020 SCHEDULE

Please note: All timings below are in IST (GMT +5:30 hrs)

MONDAY Sept 14, 2020		TUESDAY SEPT 15, 2020		WEDNESDAY SEPT 16, 2020	
9:00 - 9:45	INAUGURATION Dr. Frank Lambert, IEEE PES President Mr. Shujun Lu, Deputy President, CSEE Mr. Mustafa Wajid, Chair, POWERCON 2020 Mr. Dean Sharafi, IEEE PES R-10 representative Chief Guest Shri. Mahendra Jain, IAS, ACS Energy Dept, GoK	9:00 - 9:45	KEYNOTE 2 Title: Large Scale Integration of Renewables: Future Trends Speaker: Prof. Jianbao Guo, State Grid Corporation of China	9:00 - 9:45	KEYNOTE 3 Title: Electricity Markets in India Speaker: Mr. Sudhansu S Barpanda, Director, POSOCO
9:45 - 10:30	KEYNOTE 1 Title: New Electric World Speaker: Mr. Anil Chaudhary, CEO, Schneider Electric India Pvt Ltd & Zone President, India	9:45 - 10:45	PANEL SESSION 2 Title: Cyber Security in Power Transmission System Moderator: Dr. Aditya Ashok, Pacific Northwest National Laboratory Panelists: Prof. Manimaran Govindarasu, Iowa State University Dr. Bruno Leao, Siemens Corporate Research Dr. Apala Ray, Global Cyber Security Manager, ABB	9:45 - 10:45	PLENARY TALK 4 Title: Long-Range Wireless Power Transmission - From Tesla to Electric Aviation Speaker: Mr. Greg Kushnir, CEO, EMROD
10:30 - 11:00	Break	10:45 - 11:15	Break	10:45 - 11:15	Break
11:00 - 12:00	PANEL SESSION 1 Title: Methodologies for State Level Resource Planning in RE Rich Environment Moderator: Mr. Sumedh Agarwal, Utility Management Manager, Tetrattech Panelists: Mr. Anurag Mishra, Clean Energy Leader, USAID Shri. Rajesh Gowda, IAS, MD, BESCO Dr. R. Nagaraja, MD, PRDC Dr. Rakesh Goyal, MD, Tetrattech	11:15 - 12:00	PLENARY TALK 2 Title: Towards Sustainable Grid - KPTCL Initiatives Speaker: Dr. N. Manjula, IAS, MD, KPTCL	11:15 - 12:00	INDUSTRY SESSION 2 Title: Microgrids & Distributed Energy Resources Speakers: Dr. Zhiyong Yuan, Deputy Director, China Southern Power Grid Prof. Li Guo, Tianjin University
12:00 - 13:30	PAPER TRACK 1 Reliability & Resiliency	12:00 - 13:30	PAPER TRACK 5 Distribution Systems	12:00 - 13:30	PAPER TRACK 9 Grid Integration of Renewables
	PAPER TRACK 2 Measurement & Condition Monitoring		PAPER TRACK 6 Power Electronics & Drives		PAPER TRACK 10 Power System Protection
13:30 - 15:00	Break	13:30 - 15:00	Break	13:30 - 15:00	Break
15:00 - 15:30	INVITED TALK 1 Title: Blockchain based Power sector applications Speaker: Mr BS Bindhu Madhava, Director, CDAC Bangalore.	15:00 - 15:30	INVITED TALK 2 Title: Utility Energy Storage Experience Speaker: Dr. Ganesh Das, Head – Collaborations, Innovation and R&D; CEO, Clean Energy International Incubation Centre (CEIC)	15:00 - 15:30	INVITED TALK 3 Title: AI & Machine Learning in Power Industry: Opportunities & Challenges Speaker: Dr. Jan Poland, Hitachi ABB
15:30 - 17:00	PAPER TRACK 3 Power System Analysis, Modelling & Simulation	15:30 - 17:00	PAPER TRACK 7 Smart Grid Technologies	15:30 - 17:00	PAPER TRACK 11 Energy Markets
	PAPER TRACK 4 Operation & Control of Microgrids		PAPER TRACK 8 Electric Mobility		PAPER TRACK 12 Power System Optimization & Machine Learning
17:00 - 18:30	Break	17:00 - 18:30	Session on "Women in Power Engineering"	17:00 - 17:30	VALEDICTORY
18:30 - 19:15	PLENARY TALK 1 Title: Renewable Energy Resource Management Speaker: Mr. Raj G Srivastava, Senior Manager, OSI	18:30 - 19:15	PLENARY TALK 3 Title: Cloud Based EMT Simulation for Implementing Digital Twin in Low Inertia Transmission, Distribution & Microgrid Systems Speaker: Mr. Jean Belanger, CEO, Opal RT Technologies		
19:15 - 20:00	IEEE Young Professionals Sponsored INDUSTRY SESSION 1 Title: Emerging Technologies - Startups Speakers: Mr. Premraj (Prem) Krishnakutty, Vice President - R&D India, Schneider Electric Mr. Chethan Anand, CEO & Co-Founder, Seconize Mr. Karthikeyan Sundaram, Co-Founder and CTO, Greendzine Technologies Pvt Ltd	19:15 - 20:15	PANEL SESSION 3 Title: Urban E-mobility Moderator: Mr. Ravikiran A, CEO, Numocity Technologies Panelists: Dr. Amit Gupta, Electrical Program Director - RR@ NTU Crop Lab Mr. P. Prasanth Kumar, Automotive Homologation Consultant, Haritha Techlogix Mr. Arun Krishna Gelli, Divisional Manager, Ashok Leyland Mr. Vaibhav Deshwal, Business Area Sales Director, ABB		



IEEE International Conference on Power System Technology, POWERCON-2020

MONDAY
Sept 14, 2020

Time

Paper Track 1

Session Chair:

Mr. Sethuraman Ganesan, Past Chair- IEEE PES Bangalore Chapter, Consultant

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*"

12.00
to
13.30

Paper Track 2

Session Chair:

Mr. R. Anand, ZIV Automation India

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 (SnO₂) 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 Session Chair: Dr. Suresh Jangamshetty, BEC, Bagalkot
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15.30 to 17.00	<p><u>Power System Analysis, Modelling and Simulation:</u></p> <p>Paper ID - 260; Aman Gautam, "<i>Analyses of Indian Power System Frequency</i>"</p> <p>Paper ID - 316; Samya Deb Bhattacharya, "<i>IEEE PSS4B implementation in Static Excitation System and Hardware-in-Loop Testing with RTDS</i>"</p> <p>Paper ID - 286; Veerabrahmam Bathini, "<i>An Accurate and Efficient Voltage Behind Reactance Induction Machine Model based on Shifted Frequency Analysis</i>"</p> <p>Paper ID - 337; 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>Paper ID - 275; Byungkwon Park, "<i>Performance and Feature Improvements in Parareal-based Power System Dynamic Simulation</i>"</p>
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15.30 to 17.00	Paper Track 4 Session Chair: Dr. Jaya Bharatha Reddy, NIT Trichy
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15.30 to 17.00	<p><u>Operation and Control of Microgrids:</u></p> <p>Paper ID - 144; Juhi Datta, "<i>Stochastic Energy Management of grid-connected microgrid considering battery degradation cost and renewables penetration</i>"</p> <p>Paper ID - 108; Utsav Patel, "<i>Control and Operation of a Small Autonomous DC Microgrid with Improved Dynamic Performance</i>"</p> <p>Paper ID - 94; Raghumanth A, "<i>A Minimally Disruptive D-C Micro Grid for Hybrid Consumer Applications</i>"</p> <p>Paper ID - 124; Saurabh Sharma, "<i>Study and Improvement of AC Microgrid Stability Using GSA</i>"</p> <p>Paper ID - 32; Pranjal Sen, "<i>Optimal operation of grid-connected microgrid with renewable generation and battery energy storage</i>"</p>
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TUESDAY Sept 15, 2020	
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Time	Paper Track 5 Session Chair: Dr. Manohar Singh. CPRI
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12.00 to 13.30	<p><u>Distribution Systems:</u></p> <p>Paper ID - 248; Xin Liu, "<i>Review on D-PMU based applications for active electricity distribution system</i>"</p> <p>Paper ID - 287; Changyu Chen, "<i>Anomaly Detection of Pollution Control Equipment Based on AMI Data Analytics</i>"</p> <p>Paper ID - 161; Roshan Pradhan, "<i>Model Predictive Control based PVDG system with integrated power quality features</i>"</p> <p>Paper ID - 328; Olav Bjarte Fosso, "<i>PyDSAL - Python Distribution System Analysis Library</i>"</p> <p>Paper ID - 26; Firdous Ul Nazir, "<i>ADMM Based Distributed Load Flow for Radial Power Networks</i>"</p>
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Paper Track 6

Session Chair:

Dr. Hariram Sateesh, ABB

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

Session Chair:

Mr. Narayanan Rajgopal, TCS

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

Session Chair:

Dr. Swaminathan, Schneider Electric

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

Session Chair:

Dr. Payman Dehghanian, George Washington University

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*"

12.00
to
13.30

Paper Track 10

Session Chair:

Prof. Sarasij Das, IISc

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

Session Chair:

Dr. Chandrashekhar Reddy Atla, PRDC

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

Session Chair:

Dr. Debashish Jena, NITK

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*"