

11/22/2021- Session I - 10.30am-12 noon**S1-T11 EDISON HALL**

Paper ID	Title	Authors	Time
24	Analysis and Modeling of the Impact of Covid-19 Response Measures on Power Demand	Joheen Chakraborty (Columbia University); Soumyo V Chakraborty (Two Sigma)*; Sandeep K Shukla (IIT Kanpur)	10.30am-10.50am
37	Short-Term Solar and Wind Generation Forecasting for the Western Region of India	Dhwani R Panjwani (Veermata Jijabai Technological Institute)*; Sanket Barhate (Veermata Jijabai Technological Institute); Rahul M Rane (Veermata Jijabai Technological Institute (VJTI)); Abhishek Pandey (Veermata Jijabai Technological Institute); Dr. Faruk Kazi (VJTI)	10.50am-11.10am
72	Neural Networks-Based Detection of Cyber-Physical Attacks Leading to Blackouts in Smart Grids	Zhanwei He (The Pennsylvania State University)*; javad khazaei (Penn State University); Faegheh Moazeni (Penn State Harrisburg); James D Freihaut ()	11.10am-11.30am
94	Deep Reinforcement Learning based Discrete-Continuous Coexistent Power System Static Voltage Control Strategy	Boya Wang (Tsinghua University)*	11.30am-12.00noon

S1-T21 FARADAY HALL

Paper ID	Title	Authors	Time
21	Smart Charging of Electric Vehicles Considering User Behaviour	Sulabh Sachan (MJP Rohilkhand University Bareilly)*; Lalit Kumar (KAUST); Sanchari Deb (BIT Mesra)	10.30am-10.50am
22	A Segmentation Method for PV Modules in Infrared Thermography Images	Zhen Xu (Southeast University); Yu Shen (Southeast University); KanJian Zhang (School of automation, southeast university); Haikun Wei (Southeast University)*	10.50am-11.10am
48	Operation of Controllable Load in a Smart House with Precise HP Temperature Distribution Model	Kanato Tamashiro (University of the Ryukyus)*	11.10am-11.30am

52	Comparative Performance Assessment of Nine Crystalline and Thin film Solar PV technologies in Six Different Climates in India	Neha Bansal (Sharda University)*	11.30am-12.00noon
S1-T41 TESLA HALL			
Paper ID	Title	Authors	Time
4	Feature Selection for Precise Anomaly Detection in Substation Automation Systems	Xuelel Wang (Queensland University of Technology)*; Colin Fidge (Queensland University of Technology); Ghavameddin Nourbakhsh (Queensland University of Technology); Ernest Foo (Griffith University Australia); Zahra Jadidi (Queensland University of Technology); Calvin Li (Jemena)	10.30am-10.50am
6	Mathematical Modeling of Ultra-Lift Luo Converter Under Non-Ideal Scenario	Nitin Gupta (Malaviya National Institute of Technology Jaipur)*; Akash Kumar Sahoo (Malaviya National Institute of Technology Jaipur); Nirav Patel (Malaviya National Institute of Technology Jaipur); Prashant Jamwal (Nazarbayev University); Mohammad Hashmi (Nazarbayev University)	10.50am-11.10am
25	Synchronous generator modelling and excitation voltage control for GIC studies	Pitambar Jankee (University of Cape Town)*; David DTO Oyedokun (University of Cape Town); Hilary Chisepo (University of Cape Town)	11.10am-11.30am
38	An Improved Turn-off Circuit for SiC Gate Turn-off Thyristors	Hongming Ma (Tsinghua University)*; yan wang (Tsinghua University)	11.30am-12.00noon
S1-T51 KIRCHOFF HALL			
Paper ID	Title	Authors	Time
5	Metaheuristic Techniques based Optimal Placement and Sizing of Multiple Distributed Generations in Radial Distribution System	Sunil Ankeshwarapu (National Institute of Technology Warangal); Saikrishan Kongala (National Institute of Technology Warangal); Venkaiah Chintham (National Institute of Technology Warangal)*	10.30am-10.50am
16	Optimized Distributed Generation Planning for Radial Distribution System Using Particle Swarm Optimization Algorithm	Shuva Chowdhury (BRAC University)*; Fairuj Binte Faruque (BRAC University); Md. Shahriar Nazim (BRAC University); Mycheal Sowmitra (BRAC University); Dr. A.K.M Abdul Malek Azad (BRAC University)	10.50am-11.10am

32	Average Marginal Loss Allocation of Distribution Networks	kushal M jagtap (NIT Srinagar)*	11.10am-11.30am
47	Optimal Charging and Discharging of Electric Vehicles within Campus Microgrids	Yongyi Huang (University of the Ryukyus)*; Mahmoud M. Gamil (University of the Ryukyus); Hasan Masrur (University of the Ryukyus); Junchao Cheng (University of the Ryukyus); Hongjing He (University of the Ryukyus); Tomonobu Senjyu (University of the Ryukyus)	11.30am-12.00noon

11/22/2021- Session II - 3.00pm-4.30pm**S2-T22 EDISON HALL**

Paper ID	Title	Authors	Time
54	Performance Analysis of Single Axis Tracking and Floating Solar Panel for Domestic usage	Abhinav R (DXC Technologies)*; Adithya Rajeev (Adi Shankara Institute of Engineering and Technology); Anson M Varghese (Infosys); Harigovind M (TATA Consultancy Services)	3.00pm-3.20pm
66	Retrofitting of Conventional Two-wheelers to Electric Two-Wheelers	Nirmal A Kumar (TKM College of Engineering); Navaneeth M (TKM College of Engineering, Kollam)*; Allan Sabu Joseph (TKM College of Engineering)	3.20pm-3.40pm
70	New Simplified Space Vector Modulation for Three Phase Asymmetric Multilevel Inverter with Reduced Switch Count Using One Dimensional Modulator	Muraly N (Puducherry Technological University)*	3.40pm-4.00pm
87	Dual Input Isolated Integrated Converter for Electric Vehicle	Gayathri K S (Rajiv Gandhi Institute of Technology, Kottayam)*; Dolly Mary Abraham (Rajiv Gandhi Institute of Technology)	4.00pm-4.20pm

S2-T31 FARADAY HALL

Paper ID	Title	Authors	Time
30	A Review of Reactive Power Management in Distribution Network with PV System	Abdan Hanifan Dharmasakya (Universitas Gadjah Mada)*; Lesnanto Putranto (Universitas Gadjah Mada); Roni Irnawan (Universitas Gadjah Mada)	3.00pm-3.20pm
67	Simulation and Implementation of Dual-Axis Solar Tracker with PV Panel for Domestic loads	Jayabarathi R (Amrita Vishwa Vidyapeetham); Malola Simman.S.K (Amrita Vishwa Vidyapeetham)*; Sneha S (Amrita Vishwa Vidyapeetham); Vishnu karthik.R (Amrita Vishwa Vidyapeetham); Yuvan Prajith R (Amrita Vishwa Vidyapeetham)	3.20pm-3.40pm
84	Optimum Voltage Droop Control in Transmission Systems to Support the Local Voltage Stability with High Share of RES	Siam Hasan Khan (Coimbra Polytechnic – ISEC)*; Rui Pestana (REN); Cristina Faustino Agreira (IPC/ISEC)	3.40pm-4.00pm
113	Battery integrated SPV powered SRM Driven Water Pump	ANNET SHEEN P.M (GOVERNMENT COLLEGE OF ENGINEERING, KANNUR)*; Dr. SHAHIN M (Govt. College of Engg Kannur)	4.00pm-4.20pm

S2-T52 TESLA HALL

Paper ID	Title	Authors	Time
65	Optimal Sizing and Placement of Battery Energy Storage System for Resilience Enhancement in Power Distribution Systems Against Volcanic Eruptions	Diego E. Ortiz (Universidad de las Fuerzas Armadas ESPE)*; Mauricio Aguirre (Universidad de las Fuerzas Armadas ESPE); Miguel Saltos (Universidad de las Fuerzas Armadas ESPE); Andres Velasquez (Universidad de las Fuerzas Armadas ESPE)	3.00pm-3.20pm
98	Determination of Peer-to-Peer Tariff Based on Levelized Cost of Energy and Utility Rate	vikram cherala (IIT Hyderabad)*; Sushanta Banerjee (IIT Hyderabad); Pradeep Kumar Yemula (IIT Hyderabad)	3.20pm-3.40pm
103	Linearized Optimization for Reactive Power Dispatch at Transmission Grid Level considering Discrete Transformer Tap-Settings	Neelotpal Majumdar (Leibniz University of Hannover)*; Marcel Sarstedt (Leibniz Universität Hannover); Lutz Hofmann (Leibniz University Hannover); Thomas Leveringhaus (Leibniz Universität Hannover Institut für Elektrische Energiesysteme Fachgebiet Elektrische Energieversorgung)	3.40pm-4.00pm
136	A Consideration of non-linear dielectric response of water-treed XLPE cable insulation	Priya Selvamany (College of Engineering, Guindy, Anna University, Chennai)*; Dr.Gowri Sree Varadarajan (College of Engineering Anna University)	4.00pm-4.20pm

S2-T61 KIRCHOFF HALL

Paper ID	Title	Authors	Time
10	A novel method to differentiate a fault from power swing using impedance angle rate	Aldrich Zeno (University of the Philippines Diliman)*	3.00pm-3.20pm
14	Research on the Risk Assessment Method of Power Operation Based on Fuzzy Output Neutral Network	Xu Jiazhu (Hunan University); Guoqing Tong (Hunan University)*; Yuxing Liu (Hunan University); Weiming ZHANG (Hunan University)	3.20pm-3.40pm
15	Study on coordination of Coupling mechanical DC circuit breaker and fault current limiter	Xu Jiazhu (Hunan University); Qike Wang (College of electrical and information engineering in Hunan university)*; Xiangjun Zeng (Hunan University)	3.40pm-4.00pm
59	Long Short-Term Memory - Recurrent Neural Network (LSTM-RNN) Power Forecasting	Nema Mohamed Salem (Effat University)*; Maha AlSabban (Effat University); Hebatullah M Malik (Effat University)	4.00pm-4.20pm

11/22/2021- Session III - 4.30pm-6.00pm**S3-T23 EDISON HALL**

Paper ID	Title	Authors	Time
101	IPMSM Drive with Interleaved Front End Buck Boost Converter for EV Application	Aparna S (Rajiv Gandhi Institute of technology Kottayam)*; Johnson Mathew (Rajiv Gandhi Institute of Technology, Kottayam.)	4.30pm-4.50pm
102	PV fed Electric Vehicle Charging Station With Power Backup	SARA JOHN (Rajiv Gandhi Institute of Technology)*; Dr.Vincent G (RIT Kottayam)	4.50pm-5.10pm
115	Permanent Magnet Synchronous Motor (PMSM) drive for a Solar water pumping system using Hybrid PI controller	Anjumol A Varghese (Rajiv Gandhi Institute of Technology, Kottayam)*; Manju B (Rajiv Gandhi Institute of Technology)	5.10pm-5.30pm
116	Synthetic High-Resolution Wind Data Generation Based on Markov Model	Ziwei Wang (University of Tasmania)*	5.30pm-5.50pm
129	Optimal Selection of Switching Topology for PMSM Drive Based on Speed and Torque	ANOOP JOHN (KSEB Ltd)*; Raja Sekhar Kammala (Valeo Siemens eAutomotive)	5.50pm-6.10pm

S3-T32 FARADAY HALL

Paper ID	Title	Authors	Time
133	A Combined Gabor Transform-EKNN based Protection Scheme for AC-HVDC Transmission Line with DFIG Wind Turbine	Ebha Koley (NIT Raipur)*; RAVI PRAKASH (NIT raipur)	4.30pm-4.50pm
164	A Cross-regional Peak Shaving Optimization Clearing Model Considering Bilateral Quotation	Fang Liu (China Electric Power Research Institute)*	4.50pm-5.10pm
174	Measurement of Real Time Energy Consumption using Low-Cost High-Speed Microcontroller	Sujoy Bhowmik (Narula Institute of Technology); Satadru Karmakar (Narula Institute of Technology); Jaydeep Das (Narula Institute of Technology); Arkendu Mitra (Narula Institute of Technology)*; Biswajit Halder (Narula Institute of Technology); Subhra Mukherjee (Narula Institute of Technology)	5.10pm-5.30pm
186	Mathematical Modeling of Electromechanical Interaction with DFIG for Ideal Wind Conditions	Umesh Chaudhary (IIT Guwahati)*; AJIT KUMAR (DEPARTMENT OF SCIENCE AND TECHNOLOGY PATNA (BIHAR))	5.30pm-5.50pm

S3-T42 TESLA HALL			
Paper ID	Title	Authors	Time
76	Implementation of Soft Computing Techniques to Evade Partial Shading Effects for PV Based Off-Grid System	Vrince Vimal (Graphic Era Hill University)*; Ashish Grover (Manav Rachna International University); Anita Khosla (Manav Rachna International Institute of Research & Studies); Dheeraj Joshi (DTU, Delhi, India)	4.30pm-4.50pm
125	Steady-state Initialization of Doubly Fed Induction Generator Based Wind Turbine Considering Grid Side Filter	D R KARTHIK (BITS Pilani)*; Shashidhara Mecha Kotian (NITK Surathkal); Narayan Manjarekar (BITS Pilani K K Birla Goa Campus Goa)	4.50pm-5.10pm
166	Controller Design Loop Shaping Technique for Multi-Phase Interleaved DC-DC Step-Up Converter	Vaishali Chapparya (IIT Roorkee)*; PRAKASH DWIVEDI (NIT UTTARAKHAND); S P Singh (iiT Roorkee)	5.10pm-5.30pm
189	Extended Ideal AVR: A Theoretical Study	Ajit Kumar (NIT Patna)*; Sweta Prasad (NIT Pantan); Rajib Mandal (National Institute of Technology Patna)	5.30pm-5.50pm
S3-T62 KIRCHOFF HALL			
Paper ID	Title	Authors	Time
69	An Effective Power Management Scheme for Grid connected and Islanded PV/DG Hybrid Microgrid	Urvi Nikunj Patel (Dr.S.&S.S.Ghandhy Government Engineering College, Surat)*	4.30pm-4.50pm
80	Research on dynamic characteristics of inverter when fault occurs in HVDC receiving end equipped with synchronous condenser	Tao Pang (Hunan University)*; edit Longfu Luo (Hunan University)	4.50pm-5.10pm
81	Offline Converter Undisturbed Grid-connected Strategy Based on Virtual Synchronous Generator Control	Jiazhu Xu (Hunan University); Zhihong Liang (Hunan University)*	5.10pm-5.30pm
131	Control Scheme to Improve Reactive Power Sharing and Voltage Regulation in an Islanded Microgrid	HANY SF (COLLEGE OF ENGINEERING, TRIVANDRUM)*; ROYKUMAR MARIYAN (College of Engineering Trivandrum); ARUN L (TKM College of Engineering Kollam)	5.30pm-5.50pm
173	Analysis of An Abnormal Overcurrent Phenomenon of Fault Ride-Through of Virtual Synchronous Generator	Zhangtao Jin (Hunan University); Feng Zhao (Hunan University)*; Zhikang Shuai (Hunan University)	5.50pm-6.10pm

11/23/2021- Session IV - 4.30pm-6.00pm

S4-T12

Paper ID	Title	Authors	Time
104	Machine Learning Based Intrusion Detection System for Real-Time Smart Grid Security	Puja Sen (Utopus Insights)*; Sumit Waghmare (Utopus Insights)	4.30pm-4.50pm
156	Dynamic security region algorithm considering sample imbalance and misclassification cost	Kun Ma (Power Systems State Key Lab , Dept. of Electrical Engineering, Tsinghua University)*	4.50pm-5.10pm
188	Intelligent Detection of High Impedance Fault using Extreme Learning Machine	Sunidhi Gupta (NIT Calicut); Dr. Shihabudheen K V (NIT, Calicut, Kerala)*; Anju M (NIT Calicut); Dr. Bijuna Kunju (TKM College of Engineering, Kollam)	5.10pm-5.30pm

S4-T24

Paper ID	Title	Authors	Time
139	A New Power Forecasting Method for Photovoltaic Plants under Hazy Conditions	Ming Ma (Tongji University)*; Bin He (Tongji University); Qingquan Lv (State Grid Gansu Electric Power Research Institute); Runjie Shen (Tongji University); Honglu Zhu (North China Electric Power University); Ruyin Hou (North China Electric Power University)	4.30pm-4.50pm
146	Seasonal Effects of Electric Vehicle Charging on the Aging of Distribution Transformers	Arjun Visakh (National Institute of Technology Tiruchirappalli)*; Selvan M (NIT Trichy)	4.50pm-5.10pm
151	Limits of Electromagnetic Environment for Electric Vehicle Wireless Power Transfer	Kai Che (State Grid Hebei Electric Power Research Institute); Jinxing Yu (State Grid Hebei Electric Power Research Institute); Peng Yang (State Grid Hebei Electric Power Research Institute); Minglei Wei (State Grid Hebei Electric Power Research Institute); Songtao Liu (North China Electric Power University); Deguan Li (North China Electric Power University)*	5.10pm-5.30pm
175	Aggregation of DERs like Air Conditioners for Virtual Power Plant, based on IEEE 1547 Standards Family	Masaki Umejima (Keio University)*; Selvakumar Manickam (Universiti Sains Malaysia)	5.30pm-5.50pm
187	Rooftop Solar-Based EV Charging in India: A Techno-Economic Comparison	Ammu S Jacob (CSTEP)*	5.50pm-6.10pm

S4-T53

Paper ID	Title	Authors	Time
145	Optimal allocation of DG and Capacitor Units Using Jellyfish Search Algorithm	Vimal Tiwari (MITS Gwalior)*; Hari Mohan Dubey (BIT, Sindri-Dhanbad); Manjaree Pandit (MITS Gwalior)	4.30pm-4.50pm
147	Application of Satin Bowerbird Algorithm for Optimal Sizing of a Solar-Biomass based Microgrid	NISHANT THAKKAR (MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL INDIA)*; Priyanka Paliwal (MANIT Bhopal)	4.50pm-5.10pm
172	Floating Solar Potential Assessment	HEMA BALA SUBRAMANYAM PAKYALA (IIT ROORKEE)*	5.10pm-5.30pm

