December 5th		
ZOOM Session Information: (Zoom link is in the last page)		
Room 1: Opening Session, Closing Session, Keynote Speakers: **Meeting ID:** 812 2450 2471 **Password:** 039915 **Room 2:** WIE Panel, Best paper session: **Meeting ID:** 890 5173 4858 **Password:** 672064 **Room 3:** Technical Session 10 **Meeting ID:** 862 5585 7923 **Password:** 776558 **Room 4:** Technical Session 5 **Meeting ID:** 810 7346 4094 **Password:** 310322 **Room 5:** Technical Session 8 **Meeting ID:** 859 0556 6617 **Password:** 573171 **Room 6:** Technical Session 9 **Meeting ID:** 884 8330 6531 **Password:** 654878 **Room 7:** Special Session 2 **Meeting ID:** 872 4839 7253 **Password:** 956089 **Room 8:** Industrial Panel: **Meeting ID:** 863 0945 0398 **Password:** 515291	**Room 9:** Technical Session 13 **Meeting ID:** 817 5130 9210 **Password:** 654878 **Room 10:** Technical Session 14: **Meeting ID:** 861 0522 3787 **Password:** 988600 **Room 11:** Technical Session 15 **Meeting ID:** 850 7252 2492 **Password:** 122048 **Room 12:** Technical Session 12 **Meeting ID:** 848 5250 9703 **Password:** 329153 **Room 13:** Technical Session 16 **Meeting ID:** 824 4197 2412 **Password:** 588270 **Room 14:** Technical Session 17 **Meeting ID:** 844 6113 7761 **Password:** 444767 **Room 15:** Technical Session 18 **Meeting ID:** 861 0522 3787 **Password:** 988600	
7:30—8:00, PST **Room 1**	**Opening Session**	
8:10—9:00 **Room 1**	Keynote Speaker 1: Kamal AI-Haddad **“Electric Energy Conversion New Challenges and Constraints”**	
9:10—10:00 **Room 1**	Keynote Speaker 2: Youmin Zhang **“Towards Smarter, Safer, More Reliable and More Resilient Energy and Autonomous Systems under the Framework of Cyber-Physical Systems”**	
10:10—11:40 **Room 2**	WIE Panel: Speaker 1: **Hadis Karimipour (University of Calgary, Calgary, Canada)** Speaker 2: **Himavarsha Dhulipati (Carleton University, Ottawa, Canada)** Speaker 3: **Shengrong Bu (Brock University, St. Catharines, Canada)**	Coordinator Chair: Shichao Liu
11:50—13:30 **Room 3**	Technical Session 1: AC/DC Power Quality Session Chair: Walid Morsi 1. 1570852336 An Improved Z-Source Multilevel Converter with Fewer Number of Switches, Less THD, and High Efficiency -- *Abolfazl Babaei (University of Manitoba, Canada); Waldemar Ziomek (PTI Transformers LP,*	

	Canada); Aniruddha Gole (University of Manitoba, Canada) 2. 1570858713 A Novel Totem-Pole Buck LED Driver with Minimal Power Processing -- *Sanchayan Das (National Institute of Technology, Warangal, India); Chinthamalla Ramulu (National Institute of Technology Warangal, India); Manikanta Kuraganti (National Institute of Technology Warangal, India)* 3. 1570859292 Selective Harmonic Elimination in Cascade H-Bridge Multilevel Voltage Source Inverters Using A Hybrid Optimization Algorithm -- *Hamed Madani (Islamic Azad University, Iran); Hamidreza Mosaddegh (University of Saskatchewan, Canada); Xiaodong Liang (University of Saskatchewan)* 4. 1570866450 Study of the Bus Voltage Magnitude to Monitor Power Quality in the Distribution System -- *Ramin Babazadeh Dizaji (Concordia University, Canada); Mohammad Hassan Ghaderi (University of Texas at Dallas, USA); Mohsen Ghafouri (Concordia University, Canada); Mohsen Hamzeh (University of Tehran, Iran)* 5. 1570866465 A Dynamic Series Voltage Regulator for Load Protection in Bipolar DC Power System -- *Christopher R Men (Wentworth Institute of Technology, USA); Douglas E Dow (Wentworth Institute of Technology, USA); Afsaneh Ghanavati (Wentworth Institute of Technology)*
11:50—13:50 **Room 4**	Technical Session 2-3: Cyber Security Session Chair: Chengcheng Zhao & Binyan Xu 1. 1570860120 Virtualized Experiential Learning Platform for Substation Automation and Industrial Control Cyber security -- *Moein Manbachi (British Columbia Institute of Technology, Canada); Jay Nayak; Mohamed Hammami (British Columbia Institute of Technology, Canada); Alejandro Gonzalez Bucio (British Columbia Institute of Technology, Canada)* 2. 1570862503 On Propagation of Cyber-Attacks in Wide-Area Measurement Systems -- *Hamed Sarjan (Lakehead University, Canada); Amir Ameli (Lakehead University, Canada); Mohsen Ghafouri (Concordia University, Canada)* 3. 1570866343 Detection of FDI Attacks on Voltage Regulation of PV-Integrated Distribution Grids Using Machine Learning Methods -- *Masoud Ahmadzadeh (Concordia University, Canada); Ahmadreza Abazari (Concordia University, Canada); Mohsen Ghafouri(Concordia University, Canada)* 4. 1570866375 Cyber-Security Vulnerabilities of the Active Power Control Scheme in Large-Scale Wind-Integrated Power Systems -- *Mostafa Ansari (Concordia University, Canada); Mohsen Ghafouri (Concordia University, Canada); Amir Ameli (Lakehead University, Canada)* 5. 1570866426 Detection and Mitigation Methods of Attacks on Low-Inertia Hybrid Microgrids: A Short Survey -- *Ahmadreza Abazari (Concordia University, Canada); Mohsen Ghafouri (Concordia University, Canada); Ribal Atallah (Hydro Quebec Research Institute, Canada); Chadi Assi (Concordia University, Canada)*

	6. 1570866451 A Secure Time-Based Bad Data Detection Algorithm for State Estimation -- *Roy McCann (University of Arkansas, USA); Hamdi Albunashee (Open Systems International)*
11:50—13:50 **Room 5**	Technical Session 4: Data Analytics, Artificial Intelligence, and Machine Learning Session Chair: Shichao Liu 1. 1570854413 An Android-Based Application to Detect COVID-19 and Pneumonia Using Deep Learning -- *Shuva Chowdhury (North South University, Bangladesh); Faijul Abedin (North South University, Bangladesh); Istiak Ahamed Saif (North South University, Bangladesh); Amirul Ahsan Simon (North South University, Bangladesh); Riasat Khan (North South University, Bangladesh & New Mexico State University, USA)* 2. 1570854740 An Accelerated and Risk-Free AC Power Flow Method with Machine Learning Based Initiation -- *Ming Dong (Alberta Electric System Operator); Daniel Wiebe (Alberta Electric System Operator, Canada); Jian Shi (University of Houston, USA)* 3. 1570858695 Forecasting of Solar Energy Generation via Dynamic Model Ensemble -- *Xijuan Sun (McGill University, Canada); Di Wu (McGill University, Canada); Menghan Jia (Zhejiang University, China); Yuxuan Xiao (College of Letters and Science, USA); Benoit Boulet (McGill University, Canada)* 4. 1570858696 Power System Anomaly Detection via Ensemble of Encoder and Decoder Networks -- *Xijuan Sun (McGill University, Canada); Di Wu (McGill University, Canada); Arnaud Zinflou (Hydro-Quebec, Canada); Benoit Boulet (McGill University, Canada)* 5. 1570861086 Electric Vehicle Charing Behavior Prediction Using Machine Learning Models – *Prashanth Rajagopalan (University of North Dakota, USA); Prakash Ranganathan (University of North Dakota, United Kingdom)* 6. 1570865213 Minimalistic LSTM Models for Next Day Hourly Residential HVAC Energy Usage Forecasting -- *Rahman Heidarykiany (Marquette University, USA); Cristinel Ababei (Marquette University, USA)*

11:50—13:50 **Room 6**	Technical Session 6-7: Power System Protection and Wide Area Protection Session Chair: Balakumar Balasingam 1. 1570858979 A Novel Zero-Crossing Point Calibration-Based Data Synchronization Approach for an Underground Cable Fault Localization Platform -- *Md Salauddin (University of Saskatchewan, Canada); Tongkun Lan (University of Saskatchewan, Canada); Chi Yung Chung (The Hong Kong Polytechnic University, China); Seok-Bum Ko (University of Saskatchewan, Canada); Seyed Mahdi Mazhari (University of Tehran, Iran)* 2. 1570862227 Comparative Study of Phasor Estimation Techniques Applied on Distance Protection -- *Fillipe de Almeida Andrade (UFRB); Huilman Sanca Sanca (Federal University of the Recôncavo of Bahia & UFRB, Brazil); Francisco das Chagas Souza Junior (IFRN, Brazil); Pedro Henrique Aquino Barra (UFRB)* 3. 1570866326 Fast and Reliable Load-Shedding Scheme for Wastewater Treatment Plant - A Case Study -- *G. M. Asim Akhtar (Schweitzer Engineering Laboratories, Inc., USA); Muhammad Waqar Ahmed (Schweitzer Engineering Laboratories Inc, USA); Will Allen (Schweitzer Engineering Laboratories Inc, USA); Perry Zhang (The City of Calgary, Canada); Kyle Jensen (Stantec Inc, USA); Sujay Dasgupta (Schweitzer Engineering Laboratories Inc, USA)* 4. 1570866331 Bay Control Unit in an IEC 61850 Environment: A Generalized and Systematic Process Flow for Optimized Configuration -- *G. M. Asim Akhtar (Schweitzer Engineering Laboratories, Inc., USA); Muhammad Sheraz (Schweitzer Engineering Laboratories Inc, USA); Muhammad Waqar Ahmed (Schweitzer Engineering Laboratories, Inc., USA)* 5. 1570866474 A Routine to Compute Current Distribution in Short Cables Directly in the Time Domain on Complex Structures During Fault Conditions Using CST Studio Suite and ATP-EMTP -- *Pablo Torrez Caballero (Sao Paulo State University); Antonio Roberto Panicali (CPQD, Brazil); Eduardo F Costa (CPqD - Research and Development Center in Telecommunications, Brazil); Ricardo Hiroshi Minoda (Fundação CPqD & Unicamp, Brazil); Felipe Ricordi Gismoti Guimaraes (PETROBRAS, Brazil); Carlos Andre Carreiro Cavaliere (PETROBRAS, Brazil); Vinicius Zimmermann Silva (PETROBRAS, Brazil); Marcos Leonardo Ramos (PETROBRAS, Brazil)* 6. 1570870074 Shunt Capacitor Bank Fault Detection and Localization Using Sub-Cycle Algorithm -- *Mohsen Tajdinian (Shiraz University, Iran); Behzad Behdani (Delft University of Technology, The Netherlands); Ali Goodarzi (Fars Electricity Distribution Company); Harold R. Chamorro (RTH Royal Institute of Technology, Colombia); Vijay K. Sood (Ontario Tech University, Canada)*

11:50—13:30 **Room 7**	Technical Session 11: HVDC, FACTS, and High-Power Converters Session Chair: Vijay K. Sood 1. 1570862625 Robust PID Controller Design for DC-DC Converters: The Buck Converter -- *Siddhartha Vishwanatha (CVR College of Engineering, India); Yogesh Vijay Hote (Indian Institute of Technology Roorkee, India)* 2. 1570866379 Hybrid CPU-GPU-Based Electromagnetic Transient Simulation of Modular Multilevel Converter for HVDC Application -- *Walid Ali Hatahet (University of British Columbia, Canada); Liwei Wang (University of British Columbia, Canada)* 3. 1570866433 Comparison of Different Types of FCLs Effect on the Transient of VSC MT-HVDC System -- *Jalal Sahebkar Farkhani (Aalborg, Denmark); Kaiqi Ma (University of Aalborg, Denmark); Zhe Chen (Aalborg University, Denmark); Claus Bak (Aalborg University, Denmark)* 4. 1570869323 A Modified Modulation of WE-Type Multilevel Inverter for Enhanced Output Voltage Capability -- *Mohammad Ali (KIng Fahd University of Petroleum & MInerals, Saudi Arabia); Muhammad Khalid (King Fahd University of Petroleum and Minerals, Saudi Arabia)*
11:50—13:30 **Room 8**	Special Session 1: Approaches for Robust Battery Management Systems Session Chair: Seyed Masoud Mohseni-Bonab 1. 1570866234 Approach for Rigorous Evaluation of a Battery Fuel Gauge -- *Prarthana Pillai (University of Windsor, Canada); Balakumar Balasingam (University of Windsor, Canada)* 2. 1570866384 Open-Circuit Voltage Modelling Toolbox for Battery Management Systems -- *Prarthana Pillai (University of Windsor, Canada); Balakumar Balasingam (University of Windsor, Canada)* 3. 1570866417 Fast Offline Battery Capacity Estimation Approach with Performance Bounds -- *Sneha Sundaresan (University of Windsor, Canada); Sooraj Sunil (University of Windsor, Canada); Balakumar Balasingam (University of Windsor, Canada); Krishna R Pattipati (University of Connecticut, USA)* 4. 1570866420 Fast OCV Characterization Approach for Battery Reuse Applications -- *James Vu Nguyen (University of Windsor, Canada); Prarthana Pillai (University of Windsor, Canada); Balakumar Balasingam (University of Windsor, Canada)* 5. 1570866471 Novel Table-Based Kalman Filter for State of Charge Estimation of Batteries -- *Sooraj Sunil (University of Windsor, Canada); Sneha Sundaresan (University of Windsor, Canada); Balakumar Balasingam (University of Windsor, Canada); Krishna R Pattipati (University of Connecticut, USA)*

December 6th	
7:00—8:00 **Room 1**	Keynote 3: Huazhen Fang **"What Can We Make Out of Control and Learning for Batteries and Electrification?"**
8:10—9:40 **Room 3**	Technical Session 10: Electric Mobility Session Chair: Xianke Lin 1. 1570859527 Identifying Degradation Indicators for Electric Vehicle Battery Based on Field Testing Data -- *Kei Long Wong (Macao Polytechnic University, Macao); Ka Seng Chou (Macao Polytechnic University & University of Bologna, Macao); Davide Aguiari (Università di Bologna, Italy); Rita Tse (Macao Polytechnic University, Macao); Su-Kit Tang (Macao Polytechnic University, Macao); Giovanni Pau (Technology Innovation Institute - ARRC).* 2. 1570862501 Voltage Oriented Control for Electric Vehicle Regenerative Power Regulation -- *Shibajee Nath (Nottingham University Malaysia); Aaruththiran Manoharan (University of Nottingham Malaysia Campus, Malaysia); Mumtaj Begam Kasim Rawthar (University of Nottingham Malaysia Campus, Malaysia).* 3. 1570866373 Comparative Economic Analysis of Conventional and Plug-In Battery Electric Vehicles in Canada -- *Muhammad Rehman (Ontario Tech University, Canada); Walid Morsi (Ontario Tech University (UOIT)).*
8:10—10:10 **Room 4**	Technical Session 5: Data Analytics, Artificial Intelligence, and Machine Learning Session Chair: Tianxiang Lu 1. 1570862084 Phase Identification of Smart Meters Using a Fourier Series Compression and a Statistical Clustering Algorithm -- *Jeremy J Chiu (Langara College); Albert Wong (Langara College); James Park (Langara College, Canada); Joe Mahony (Harris SmartWorks, Canada); Michael Ferri (Harris SmartWorks, Canada); Tim Berson (Harris SmartWorks, Canada).* 2. 1570865926 Application of Reinforcement Learning to Wind Farm Active Power Control Design -- *Xuanhe Zhang (Nanjing University of Aeronautics and Astronautics, China); Hamed Badihi (Nanjing University of Aeronautics and Astronautics, China); Ziquan Yu (Nanjing University of Aeronautics and Astronautics, China); Mohamed Benbouzid (University of Brest, France); Ningyun Lu (Nanjing Univ of Aeronautics and Astronautics, China); Youmin Zhang (Concordia University, Canada).* 3. 1570866257 Detection of Key Component Defect for Electric Transmission Tower by Deep Texture Analogy -- *Jinze Li (North China Electric Power University & School of Control and Computer Engineering, China); Hua Wu (North China Electric Power University, China); Fang Fang (North China Electric Power University, China).* 4. 1570866356 Deep Learning for Segmentation of Critical Electrical Infrastructure from Vehicle-Based Images -- *Yasmina Souley Dosso (Carleton University, Canada); Ethan Rizcallah (Carleton University); Rafik Goubran (Carleton University, Canada);*

	Felix Kwamena (Carleton University, Canada); James R Green (Carleton University, Canada). 5. 1570866430 A New Data Mining Application in Smart Monitoring Systems Using Self Organizing Map Neural Network to Distinguish Disk Space Variations in Distribution Transformers -- *Omid Elahi (Amirkabir University of Technology); Reza Behkam (Amirkabir University of Technology); Gevork Gharehpetian (Amirkabir University of Technology); Morteza Nazari Heris (Lawrence Technological University).* 6. 1570860703 Electrical Power Consumption Forecasting with Transformers -- *Jun Wei Chan (Nanyang Technological University, Singapore); Chai Kiat Yeo (Nanyang Technological University, Singapore).*
8:10—10:10 **Room 5**	Technical Session 8: Renewable Sources of Energy and Cogeneration Session Chair: Ziyou Song 1. 1570853316 A Regression Model-Based Short-Term PV Power Generation Forecasting -- *Shahab Karamdel (University of Saskatchewan, Canada); Xiaodong Liang (University of Saskatchewan); Sherif Faried (University of Saskatchewan, Canada); MD Nasmus Sakib Khan Shabbir (University of Saskatchewan, Canada).* 2. 1570865675 A Novel Hybrid Control Strategy with Gain Scheduling for Photovoltaic Emulators -- *Imasha Dilshani Balahewa (University of Moratuwa, Sri Lanka); Sathira Tennakoon (University of Moratuwa, Sri Lanka); Hasitha Perera (University of Moratuwa); S Kumarawadu (University of Moratuwa, Sri Lanka).* 3. 1570866359 An Improved Droop Controller for Virtual Synchronous Generators -- *Mingjun Wang (University of British Columbia, Canada); Erfan Mostajeran (The University of British Columbia, Canada); Seyyedmilad Ebrahimi (University of British Columbia, Canada); Juri Jatskevich (University of British Columbia, Canada).* 4. 1570866403 Challenges in Adopting Successful Waste-To-Energy Policies in EU Countries: Indonesia Study Case -- *Subkhi Abdul Aziz (National Research and Innovation Agency); Nidya Judhi Astrini (National Research and Innovation Agency, Indonesia); Elisabeth Rianawati (Institut Teknologi Bandung & Resilience Development Initiative, Indonesia); Anthony Halog (University of Queensland); M Indra Al irsyad (National Research and Innovation Agency).* 5. 1570866444 Optimized Hybrid Neural Network for Wind Speed Forecasting -- *T. M. Rubaith Bashar (Rajshahi University of Engineering & Technology); Mohammad Munem (Rajshahi University of Engineering & Technology); Tasnim Shawkat (Rajshahi University of Engineering and Technology); Md. Habibur Rahaman (Memorial University of Newfoundland, Canada); MD. Safayet Islam (Rajshahi University of Engineering & Technology, Bangladesh); Murad Hossain (Rajshahi University of Engineering & Technology, Bangladesh).*

8:10--9:40 **Room 6**	Technical Session 9: Microgrids and Isolated Grids Session Chair: Xinxin Shang 1. 1570866348 A Cooperative Robust Fractional-Order PID Controller for Frequency Control in Islanded Microgrids -- *Masoud Babaei Vavdareh (Concordia University, Canada); Mohsen Ghafouri (Concordia University, Canada); Amir Ameli (Lakehead University, Canada)* 2. 1570866425 Evaluation of Multifunctional PV Inverters Operation During Faults -- *Alexandre Hugo da Silveira (Universidade Federal do Rio Grande do Sul & Pontifícia Universidade Católica do Rio Grande do Sul, Brazil); Fausto Libano (Universidade Federal do Rio Grande do Sul); Roberto Chouhy Leborgne (Universidade Federal do Rio Grande do Sul, Brazil); Maicon Jaderson Silveira Ramos (Universidade Federal do Rio Grande do Sul, Brazil)* 3. 1570866462 Coordinated Energy-Sharing Scheme for DC Electric Spring and Hybrid Battery Energy Storage Source in Modern DC Microgrids -- *Danial Moeini (ETS, Canada)*
8:10--9:40 **Room 7**	Special Session 2: Estimation and Control in Industrial Cyber-Physical Energy Systems under Uncertainties Session Chair: Binyan Xu 1. 1570861627 Design Optimization of Hybrid Battery Based Gensets -- *Abba Muhammad Abdulazeez (Carleton University, Canada); Hicham Chaoui (Carleton University, Canada); Shichao Liu (Carleton University, Canada)* 2. 1570866093 Power System State Fusion Estimation Based on Maximum Correntropy Criterion -- *Changsheng Wu (Shanghai Dianzi University); Xiaoliang Feng (Henan University of Technology, China); Yaguang Guo (Henan University of Technology, China); Jingjing Yan (Henan University of Technology, China)* 3. 1570866389 Outlier-Detection-Based EKF for Power Systems -- *Haoli Gu (Zhejiang University of Technology, China); Zhongyao Hu (Zhejiang University of Technology, China); Jianbin Wang (Zhejiang University of Technology, China); Bo Chen (Zhejiang University of Technology, China); Li Yu (Zhejiang University of Technology, China)*
10:00--12:00 **Room 8**	Industrial Panel: Speaker 1: **Alexandre Nassif (LUMA Energy)** Speaker 2: **Daniel Prowse (Manitoba Hydro)** Speaker 3: **Maike Luiken (Carbovate Development Inc./Western University)** Speaker 4: **Edward Brost (Bowman Centre for Sustainable Energy)**

December 7th	
7:00—8:00 **Room 1**	Keynote Speaker 4: Sheldon S. Williamson **"Smart Fast Charging and Wireless Charging Strategies for Electrified Transportation and Autonomous E-mobility"**
8:00—10:00 **Room 2**	**Best paper session:** 1. 1570854711 A Flexible System-Level Hydrogen Transportation System Operating Structure Interacting with Urban Transportation System -- *Elahe Sahraie (Université Laval, Canada); Innocent Kamwa (University Laval, Canada)* 2. 1570856359 Small-Signal Stability Assessment with Transfer Learning-Based Convolutional Neural Networks -- *Miguel Ramirez-Gonzalez (ZHAW Zurich University of Applied Sciences, Switzerland); Lukas Nösberger (ZHAW, Switzerland); Felix Rafael Segundo Sevilla and Petr Korba (Zurich University of Applied Sciences, Switzerland)* 3. 1570866427 Direct Interfacing of Average-Value Models of VSCs in PSCAD/EMTDC -- *Seyyedmilad Ebrahimi (University of British Columbia, Canada); Taleb Vahabzadeh (The University of British Columbia, Canada); Juri Jatskevich (University of British Columbia, Canada)* 4. 1570866378 Negative-Sequence Current Control with a Hybrid Three-Level Modular Multilevel Converter -- *Levi Bieber (University of British Columbia, Okanagan, Canada); Paul Yoo (University of British Columbia Okanagan, Canada); Liwei Wang and Juri Jatskevich (University of British Columbia, Canada)* 5. 1570861556 An Adaptive Event-Triggered Distributed PID Control for State of Charge Balancing of Multiple Batteries Based Electric Vehicles -- *Pengcheng Chen, Shichao Liu and Hicham Chaoui (Carleton University, Canada)* 6. 1570849821 Analysis of Different Latencies and Time Delays in a Coupled Power-Hardware-In-The-Loop Laboratory -- *Timo Wagner (Friedrich-Alexander Universität Erlangen- Nürnberg, Germany); Julian Richter (FAU Erlangen-Nürnberg, Germany); Christian Scheibe (Friedrich-Alexander-Universität Erlangen Nürnberg (FAU) & Siemens AG, Germany); Simon Resch and Gert Mehlmann (Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany); Matthias Luther (University of Erlangen-Nürnberg, Germany)*
8:00—9:30 **Room 9**	Technical Session 13: Distributed Systems and Energy Resources Session Chair: Xinxin Shang 1. 1570866367 Distributed Cooperative Control of Flywheel Energy Storage Systems for Power Distribution -- *Zikang Ding (North China Electric Power University).*

8:00—9:30 **Room 10**	Technical Session 14: Energy Management and Energy-Aware Control Session Chair: Xianke Lin 1. 1570863392 An Efficient Energy-Aware Controller for Small-Scale Solar-Worked Devices Using Ratioed Pro-Energy Predictor -- *Murad Al-Omary (German Jordanian University, Jordan); Aiman Albatayneh (German Jordanian University, Jordan); Mustafa Jaradat (German Jordanian University, Jordan); Rafat Aljarrah (Princess Sumaya University for Technology, Jordan).* 2. 1570866243 Day-Ahead Scheduling of Integrated Energy Systems Considering Carbon Emissions -- *Weiyou Wang (North China Electric Power University); Yuanye Chen (North China Electric Power University); Fang Fang (North China Electric Power University, China).*
8:00—9:30 **Room 11**	Technical Session 15: Transactive Energy and Electricity Markets Session Chair: Seyed Masoud Mohseni-Bonab & Yue Song 1. 1570853127 Coordinated Trading of Capacity and Balancing Products in Multi-Area Local Flexibility Markets -- *Ángel Paredes (University of Malaga, Spain); Jose Aguado (University of Malaga, Spain).* 2. 1570860362 A Novel V2V Charging Scheme to Optimize Cost and Alleviate Range Anxiety -- *Samira Hosseini (Lakehead University, Canada).*
8:00—9:30 **Room 12**	Technical Session 12: Smart Grids Session Chair: Chengcheng Zhao 1. 1570866436 Time-Synchronization Attack on Data Aggregation in Wide-Area Damping Controllers -- *Masoud Zadsar (Concordia University, Canada); Mohsen Ghafouri (Concordia University, Canada); Amir Ameli (Lakehead University, Canada); Bassam Moussa (Hitachi ABB Power Grids, Canada).* 2. 1570866464 UKF-Based State Estimation for Smart Grids Under FDI Attacks -- *Jin Li (Concordia University, Canada); Youmin Zhang (Concordia University, Canada).*
9:30—11:10 **Room 13**	Technical Session 16: Power System Stability and Control & Demand Response Session Chair: Songlin Zhuang 1. 1570866418 Impact of PV Variability Towards the Frequency Response in Deloaded Mode -- *Azazul Islam (Bangladesh University of Engineering and Technology); Atik Jawad (Bangladesh University of Engineering and Technology & University of Liberal Arts Bangladesh, Bangladesh); Nahid-Al- Masood (Bangladesh University of Engineering and Technology, Bangladesh).* 2. 1570866423 Large Signal Stability of Grid-Tied Virtual Synchronous Generator Using Trajectory Reversing -- *Ahmed*

	Sheir (UOIT, Canada); Ruth Milman (UOIT, Canada); Vijay K. Sood (Ontario Tech University, Canada). 3. 1570858511 Advanced Contextual-Targeted Building Flexibility Based on Signature Labelling for Demand Response -- *Petros Tzallas (Centre for Research Technology (CERTH), Greece); Alexios Papaioannou (Information Technologies Institute / Centre of Research and Technology Hellas, Greece); Asimina Dimara (Centre for Research and Technology Hellas); Stelios Krinidis (Centre for Research and Technology Hellas, Greece); George Pavlidis (Centre for Research Technology (CERTH), Greece); Christos Nikolaos Anagnostopoulos (University of the Aegean, Greece).*
9:30—11:10 **Room 14**	Technical Session 17: Wireless Power Transmissions & Active Distribution Systems & Efficiency and Conservation & Digital Transformation of Power and Energy Systems Session Chair: Chao Shen 1. 1570862534 Analyzing the Impacts of High Voltage Insulators on Equivalent Parameters of Wireless Power Transfer: Simulation and Experimental Studies -- *Sadjad Shafiei (Nazarbayev University, Kazakhstan); Seyed Saeid Heidari Yazdi (Nazarbayev University, Kazakhstan); Tleukhan Mussin (Nazarbayev University, Kazakhstan); Yussuf Shakhin (Nazarbayev University, Kazakhstan); Alireza Namadmalan (University o Galway, Ireland); Mehdi Bagheri (Nazarbayev University, Kazakhstan).* 2. 1570866076 Grey Wolf Optimizer for Optimal Distribution Network Reconfiguration -- *Haifa Souifi (ClairiTech Innovations); Hsan Hadj Abdallah (University of Sfax, Tunisia).* 3. 1570862758 Survey-Based Policies to Integrate Local Lamp Manufacturer Interests and Energy Efficiency in Indonesia -- *Vetri Nurliyanti (National Research and Innovation Agency); M Indra Al irsyad (National Research and Innovation Agency); Tri Anggono (Ministry of Energy and Mineral Resources, Indonesia); Qatro Romandhi (Ministry of Energy and Mineral Resources); Nidya Judhi Astrini (National Research and Innovation Agency, Indonesia).* 4. 1570866300 A Digital Twin Model for COP Prediction in Refrigeration System Using Combined Machine Learning Method -- *Dongxu Zhou (State Grid Jiangsu Electric Power Co., Ltd. Nanjing Power Supply Branch); Zhengyi Zhu (State Grid Jiangsu Electric Power Co., Ltd. Nanjing Power Supply Branch).*

9:30—11:10 **Room 15**	Technical Session 18: Electrical Machines & Drivers & Real-Time Simulation Session Chair: Tao Yang 1. 1570866443 Reducing Dependency on Rotor Time Constant in a Rotor Flux Oriented Vector Controlled Induction Motor Drive Based on Its Static Model -- *Himanshu Swami (Indian Institute of Technology Delhi, India); Amit Kumar Jain (IIT Delhi, India).* 2. 1570866472 Type 4 Wind Turbine Design and Development of Grid Code Algorithms -- *Hakkı Gülcü (ASELSAN Inc., Turkey); Bunyamin Tamyurek (Gazi University).*
11:10—12:00 **Room 1**	**Closing Session**

ZOOM Session Link:
Room 1: https://uvic.zoom.us/j/81224502471?pwd=V3JQbmw3NHcxeFlySDJHOGRMQ1JLdz09

Room 2: https://uvic.zoom.us/j/89051734858?pwd=clhyYzl5Qnh0NEUvMGRrSEw4QUoxdz09

Room 3: https://uvic.zoom.us/j/86255857923?pwd=SmR3bWliM3d4dzNGU3pmcHFqUGVzQT09

Room 4: https://uvic.zoom.us/j/81073464094?pwd=bXdsTDk2Y21hZTN2bFZudGhQWGhBUT09

Room 5: https://uvic.zoom.us/j/85905566617?pwd=Y204emRuNUdKanRJY2pVV1dUbFloUT09

Room 6: https://uvic.zoom.us/j/88483306531?pwd=cnJPNG1jdlpJT0RBdGJtUFM1ZEFDdz09

Room 7: https://uvic.zoom.us/j/87248397253?pwd=cGJBQnFiVDJxOElZQlBaVzFENVhOQT09

Room 8: https://uvic.zoom.us/j/86309450398?pwd=NVlZbkFGUkxJeXRVOENyRVpXZUNDdz09

Room 9: https://uvic.zoom.us/j/81751309210?pwd=VlhnSWg3WkI0QWQ1anltUWN4YzE2Zz09

Room 10: https://uvic.zoom.us/j/86105223787?pwd=aFh1MXIwaVdxTjZ6YVVBcWlFVkp2Zz09

Room 11: https://uvic.zoom.us/j/85072522492?pwd=Q2lCamhtdzVBNGlTQzVVUTd3UGN5dz09

Room 12: https://uvic.zoom.us/j/84852509703?pwd=d2JsOFMxaHhwNXNHb3NYQ3hpVVhjQT09

Room 13: https://uvic.zoom.us/j/82441972412?pwd=bC9NWFdPZjhlQ3ZCODJaNHg2Zkdsdz09

Room 14: https://uvic.zoom.us/j/84461137761?pwd=K1BRWkRKaTcwaHdQbWZRRGVjZnRQQT09

Room 15: https://uvic.zoom.us/j/86105223787?pwd=aFh1MXIwaVdxTjZ6YVVBcWlFVkp2Zz09