

## Technical Program Schedule

### October 22, Sunday:

15:00	Registration Begins
	Terrace Lounge
15:00 – 17:00	Mini-tutorial by IEEE Standards Association Chair: Andrew Kostiuk
19:00 – 21:00	Reception Host: Prof. Denard Lynch

### October 23, Monday:

	Battleford		
8:45 – 9:00	Chair: Jonathan Palmer Welcome Speech: Prof. C.Y. Chung Opening Speech: Prof. Witold Kinsner		
9:00 – 10:00	Keynote 1: Mike Marsh, SaskPower		
10:00 – 10:20	Coffee break		
	Salon Batoche	Kelsey	Terrace
10:20 – 12:00	Session 1: Solar Energy Chair: Prof. Vijay Sood	Session 4: Data Analytics and Computation Methods Chair: Prof. Hany Farag	Industry Session 1: Renewable Energy Future Chair: Mark Pollack
12:00 – 13:20	Lunch		
13:20 – 15:00	Session 2: DG and Microgrids Chair: Prof. Carl Ho	Session 5: Electric Vehicles Chair: Aboutaleb Haddadi	Tutorial: EMTP-RV Chair: Andrew Kostiuk
15:00 – 15:20	Coffee break		
15:20 – 17:00	Session 3: DG and Microgrids Chair: Prof. John Lam	Session 6: Wind Energy Chair: Shengjun Huang	Tutorial: EMTP-RV
17:00 – 19:00	Women in Engineering – Battleford Room Co-Chairs: Natalia Petryshyn, SaskPower & Nasim Abdollahi, University of Manitoba		
19:00 – 21:00	Young Professional Event – off site Chair: Keaton Wheeler		

### October 24, Tuesday:

	Battleford		
9:00 – 10:00	Keynote 2: Deepa Kundur Chair: Prof. Raman Paranjape		
10:00 – 10:20	Coffee break		
	Salon Batoche	Kelsey	Terrace
10:20 – 12:00	Session 7: Power System Protection Chair: Prof. Gregory J Kish	Session 10: Power Electronics, FACTS Chair: Prof. Athula Rajapakse	Industry Session 2: Smarter Grid for Future Chair: Prof. Rajesh Karki
12:00 – 13:20	Lunch		
13:20 – 15:00	Session 8: Power System Protection Chair: Prof. Xiaodong Liang	Session 11: Power System Reliability Chair: Prof. Nava Raj Karki	Session 13: Power System Dynamics and Stability Chair: Prof. Irfan S. Al-Anbagi
15:00 – 15:20	Coffee break		

15:20 – 17:00	Session 9: Smart Grids Chair: Prof. Denard Lynch	Session 12: Power Electronics, HVDC Chair: Prof. Xiaozhe Wang	Session 14: Power System Control Chair: Dr. Zhijun Wang
18:00 – 20:00	Banquet - Battleford		

**October 25, Wednesday:**

	Salon Batoche	Terrace	Battleford
9:00 – 10:20	Session 15: Energy Storage Chair: Prof. Sherif Faried	Session 16: Electricity Markets Chair: Prof. Arunesh K. Singh	Poster Session
10:20 – 10:40	Coffee break		
10:40 – 12:00	Session 17: Resource Prediction & Forecasting Methods Chair: Prof. Rama Gokaraju	Session 18: Reliability, Resiliency & Cyber Security Chair: Prof. Morad Abdelaziz	Poster Session

## Oral Presentation Schedule

**October 23, Monday:**

**Keynote 1:** Building a Sustainable Electricity Future for Saskatchewan: Business Impacts and Opportunities  
Mike Marsh, SaskPower

### **Session 1: Solar Energy**

1. 1570371362: Solar Photovoltaic Power in Manitoba. Carl Ho; Reynald Andico; Raveen Mudiyansele
2. 1570372125: A New Energy-Efficient Topology for Solar-Powered Capacitive Deionization Systems. Ashraf Seleyem
3. 1570372265: Design and Implementation of a Low Cost Web Server Using ESP32 for Real-Time Photovoltaic System Monitoring. Ibrahim Allafi; Mohammad Tariq Iqbal
4. 1570376045: Power Quality Characteristics of Residential Grid-Connected Inverter of Photovoltaic System. Khaled Alawasa; Abdullah Al-Odienat
5. 1570370113: Kalman Filter-Based Maximum Power Point Tracking for PV Energy Resources Supplying DC Microgrid. Haytham AbdEl-Gawad; Vijay K. Sood

### **Session 2: DG and Microgrids**

1. 1570365418P: Voltage Stability-Constrained Energy Management in Industrial Microgrids with Renewable Energy Sources. Masoud Esmaili; Shahin Masouminejad
2. 1570372881: Multi-agent Coordination of Distributed Energy Storage Systems for Mitigating Renewable Energy Resources High Ramp-Rate Issues. Nader El-Taweel; Hany Farag
3. 1570376061: Wind Turbine Control Based on a Permanent Magnet Synchronous Generator Connected to an Isolated Electrical Network. Paul Makanga Koumba; Ahmed Cheriti; Mamadou Lamine Doumbia; Allal El Moubarek Bouzid; Hicham Chaoui
4. 1570377577: Interlinked Hybrid Microgrids with Fault Confining Capability Using a Novel MMC Topology. Ahmed Sallam; Mohammed Nassar; Ragi Hamdy; Magdy Salama
5. 1570379835: Real Option Valuation of Flexibilities in the Integrated Planning of Natural Gas-Fired Distributed Generators and Natural Gas Distribution System. Babatunde Odetayo; John MacCormack; Bill Rosehart; Hamidreza Zareipour

### **Session 3: DG and Microgrids**

1. 1570371753: Simulation of Microgrid System with Distributed Generation . Faizan Khan; Mohammad Ali; Vijay K. Sood; Faruk Bhuiyan; Phillip Insull; Faraz Ahmad
2. 1570372308: Nonlinear Reactive Power Control Scheme to Maximize Penetration of Distributed Generation in Distribution Networks. Amrit Singh; Peter W Lehn
3. 1570379243: An Improved Distributed Control Strategy for Demand Response in Distribution Network in the Presence of Replay. Peixiang Zheng; Peikai Li; Wenxuan Wu; Bin Chen; Gonglin Zhang; Yuanliang Fan
4. 1570374820: Practical Power Distance Test Tool Based on OPF to Assess Feeder DG Hosting Capacity. Zhijun Wang; Xiaoyu Wang; Liangxiang Tang
5. 1570359921: A Real Case Application of ROCOF and Vector Surge Relays for Anti-Islanding Protection of Distributed Energy Resources. Alexandre Nassif; Colin Madsen

### **Session 4: Data Analytics and Computation Methods**

1. 1570379580: Distribution Network Reconfiguration with the Application of DLMP Using Genetic Algorithm. Habib Rajabi Mashhadi; Saeed Nematshahi
2. 1570369772: Performance Analysis of GPU-Accelerated Fast Decoupled Power Flow Using Direct Linear Solver. Shengjun Huang; Venkata Dinavahi
3. 1570380381: Optimizing Electric Taxi Charging System: A Data-Driven Approach from Transport Energy Supply Chain Perspective. Yinghao Jia; Yide Zhao; Ziyang Guo; Yu Xin; Huimiao Chen
4. 1570377323: Quantification of Changes in Surface Texture of Thermally-Aged Kraft Paper Using Orthogonal Wavelets. Nathan Jacob; Sherif Sherif; Behzad Kordi
5. 1570374822: Probabilistic Available Delivery Capability Assessment of General Distribution Network with Renewables. Hao Sheng; Xiaozhe Wang

## **Session 5: Electric Vehicles**

1. 1570361887: Design of 3.3 kW Wireless Battery Charger for Electric Vehicle Application Considering Bifurcation. Kunwar Aditya; Vijay K. Sood
2. 1570364137: An Energy Management Approach for Electric Vehicle Fast Charging Station. Yuchong Huo; Francois Bouffard; Geza Joos
3. 1570371485: Compare Motors of Toyota Prius and Synchronous Reluctance for Using in Electric Vehicle and Hybrid Electric Vehicle. Alireza Siadatan; Mehdi Kholousi adab; Houman Kashian
4. 1570372413: Optimizing Electric Vehicles Charging Cost for Frequency Regulation Support in a Smart Grid. Olalekan Kolawole; Irfan S. Al-Anbagi
5. 1570375866: Evaluation of Electric Vehicle Penetration in a Residential Sector Under Demand Response Considering Both Cost and Convenience. Zhanle Wang; Raman Paranjape

## **Session 6: Wind Energy**

1. 1570360111: Study of an Optimized Wind-Diesel Hybrid System for Canadian Remote Sites. Youssef Saad; Chadi Nohra; Rafic Younes; Saïd Abboudi; Adrian Ilinca
2. 1570370169: Wind Power Integration Mechanism for China: An Optimal Combination Strategy for Wind Farms and Local Demand Response Resources. Shengnan Zhao; Beibei Wang
3. 1570375784: Declining Cost of Renewable Energy Technology. Chukwuma Leonard Azimoh; Babu Paul; Charles Mbohwa
4. 1570371295: Utilizing Phase Shifting Transformer for Effective Integration of Wind Generation. Iraj Rahimi Pordanjani; Fayaz Qureshi; Ali Jafari; Ryan Cui
5. 1570378436: Optimal Power Flow in Distribution Networks with High Penetration of Photovoltaic Units. Tianjian Wang; Matin Meskin; Yiting Zhao; Ilya Grinberg

## **Industry Session 1: Renewable Energy Future**

1. Douglas Opseth (SaskPower) - Saskatchewan's Cleaner Energy Future: Operational and Technical Challenges
2. Marshall Kern (Bowman Centre) – Nation-Building Sustainable Energy Projects
3. Alex Nassif (ATCO Electric) – DER Interconnection Processes and Study Methods in Alberta
4. Nathan Ziegler (Saskatoon Light & Power) – Natural Gas Landfill Distributed Generation

**October 24, Tuesday:**

**Keynote 2:** Cyber-Physical Security and Resilience of Energy Infrastructure  
Prof. Deepa Kundur, University of Toronto

## **Session 7: Power System Protection**

1. 1570370965: A Universal Synchrophasor Based Test Platform. Xiaodong Liang
2. 1570371314: On-Line Gas Monitoring for Increased Transformer Protection. Mickel Saad; Ed teNyenhuis
3. 1570371887: Temperature Estimation and Vibration Monitoring for Induction Motors. Xiaodong Liang
4. 1570371569: Optimum Design of an Inner Slider Tubular Linear PM Synchronous Actuator. Alireza Siadatan; Niloofar Shoja Razavi; Seyedmansour Hosseinirad
5. 1570372444: Time to Voltage Collapse Dependence of Load Shedding to Avoid Voltage Collapse. Tara Alzahawi

## **Session 8: Power System Protection**

1. 1570364659: A Microgrid Protection Scheme Using Differential and Adaptive Overcurrent Relays. Keaton A Wheeler; Sherif Faried; Mohamed Elsamahy
2. 1570360220: Digital Relaying Scheme for Protection of Shunt-Compensated Transmission Lines. Om Hari Gupta; Manoj Tripathy; Vijay K. Sood
3. 1570379822: FPGA Implementation of a Phaselet Method for High Speed Distance Relaying - Preliminary Results . Shane Jin; Ramakrishna (Rama) Gokaraju; Eli Fortunato Pajuelo
4. 1570364290: Particular PV Grid-Connected System Under Symmetrical and Asymmetrical Faults Analysis. Brown Serge Tekpeti; Xiaoning Kang; Mostafa Kheshti

- 1570364308: Fault Analysis of Accurate PV Connected System Against Dynamic Fast Solar Radiation Fluctuation. Browh Serge Tekpeti; Xiaoning Kang; Mostafa Kheshti

### **Session 9: Smart Grid**

- 1570373458: Load Reduction Probabilistic Model for Smart Grid Network Economic Dispatch Problem. Zakareya Hasan; Mohamed E. El-Hawary
- 1570375955: Identification of Critical Buses Based on Betweenness-Centrality in a Smart Grid. Mitch Campion; Prakash Ranganathan
- 1570384779: An Active Distribution Network Model for Smart Grid Control and Protection Studies—Model Validation Progress. Aboutaleb Haddadi; Jean Mahseredjian; Hossein Hooshyar; Luigi Vanfretti; Christian Dufour
- 1570379343: A Cooperative Control Architecture of Cyber-Physical Distribution Network System. Peixiang Zheng; Peikai Li; Bin Chen; Yuanliang Fan; Jianye Huang; Hui Peng
- 1570378590: Performance Analysis of Dimensionality Reduction Techniques for Demand Side Management. Ahmed Aleshinloye; Abdul Bais; Irfan S. Al-Anbagi

### **Session 10: Power Electronics, FACTS**

- 1570372791: An Improved HERIC Inverter with Zero-Current-Switching. Jian Yang; Jingtao Xu; Peng Yang; Hui Wang; Mei Su; Mengtian Shen
- 1570374835: Dynamic Performance and Small-Signal Analysis of a DC-DC Step-Up Converter with High-Gain Output Rectifier for Offshore Wind Turbines. Mehdi Abbasi; John Lam
- 1570369508: Analysis on Operation Conditions of UPFC in Nanjing Western Power System in 2016. Hui Cai; Siqi Bu; Xi Wu
- 1570371120: Power Quality Improvement Using Novel Dynamic Voltage Restorer Based on Power Electronic Transformer. Ali Kalantari Khalilabad; Mehdi Talei; Alireza Siadatan; Seyed Matin Hosseini Rad
- 1570373548: Insulation Properties of SF6/N2 Gas Mixtures Under High Pressure and Low Ratio. Chaohai Zhang

### **Session 11: Power System Reliability**

- 1570370153: Reliability Assessment of Hydro Dominant Systems with Diurnal Energy Management. Fang Fang; Rajesh Karki
- 1570374374: Seasonal Reservoir Management in Hydro Dominant Power Systems to Enhance Availability. Navjot Chattha; Rajesh Karki; Fang Fang
- 1570370617: A Novel Reliability Evaluation Method of AC/DC Hybrid Power System with the Injection of Wind Power. Can Wang; Haipeng Xie; Shiyu Liu; Zhaohong Bie
- 1570379160: Reliability Evaluation of Bulk Power System Considering Compressed Air Energy Storage. Osama Aslam Ansari; Safal Bhattarai; Rajesh Karki; Chi Yung Chung
- 1570371370: Impact of the Penetration Levels of PV and Synchronous Machine Based DG Sources on the Reliability of a Microgrid. Prajjwal Gautam; Keaton A Wheeler; Rajesh Karki; Sherif Faried

### **Session 12: Power Electronics, HVDC**

- 1570376656: Energization and Regulation of a Hybrid HVDC Grid with LCC and VSC. Naushath Mohamed Haleem; Athula Rajapakse; Aniruddha Gole; Ioni Fernando
- 1570372394: Synchronous Switching for Parallel-Connected DC-DC Boost Converters. Muamer Shebani; Tariq Iqbal; John Quaicoe
- 1570372735: A Novel Efficient Tri-State Boost Converter. Hua Han; Ruya Tan; Jian Yang; Hui Wang; Sijie Ning; Mengtian Shen
- 1570376023: Dynamic Model of an Interleaved Modular Multilevel DC-DC Converter for MVDC and HVDC Systems. Yang Gao; Nicolas Faria; Gregory J Kish
- 1570375553: Teaching IEC 61850 Based Substation Automation Through Hands-on Experiences. Sachintha Kariyawasam; Achintha Wickremasuriya; Athula Rajapakse

### **Session 13: Power System Dynamics and Stability**

- 1570364210: Demonstration of Voltage Stability by Comparing Dynamic Simulations and Quasi Steady State Analysis. Sarin Rajapakse; Udaya Annakkage
- 1570372920: Parameter Validation for Kalman Filter Based Dynamic State Estimation of Power Plant Dynamics. Avishek Paul; Geza Joos; Innocent Kamwa

- 1570372424: Modal Identification of Power System Oscillation Using Parametric DFT Technique. Sakthivel Rajmurugan; Benjamin Jeyasurya
- 1570377249: Impact of Fast Charging Stations on the Voltage Flicker in the Electric Power Distribution Systems. Sami Alshareef; Walid Morsi
- 1570378413: Induction Motors Lifetime Expectancy Analysis Subject to Regular Voltage Fluctuations. Chaohai Zhang

#### **Session 14: Power System Control**

- 1570372433: Detection of False Data Injection in Automatic Generation Control Systems Using Kalman Filter. Mohsen Khalaf; Amr Youssef; Ehab El-Saadany
- 1570371313: Dispatching Thermostatically Controlled Loads for Frequency Regulation Using Adversarial Multi-armed Bandits. Amr Mohamed; Antoine Lesage-Landry; Joshua Taylor
- 1570372486: Comparison Between Experimental Results and Simulation of a Fuel Cell Powered DC Motor Using PID Controller. Mohamed Albarghot; Faisal Alkarrami; Siu O'Young; Luc Rolland
- 1570374588: Simplex Optimization Procedure for Tuning Damping Controller Parameters for Type III DFIG Wind Generators. Jason Pannell; Olivier Larocque; Ramakrishna (Rama) Gokaraju
- 1570380422: Multi Area Load Frequency Control of Interconnected Power Systems Using JAYA. Jagdeep Singh Lather; Sukhwinder Singh Dhillon

#### **Industry Session: Smarter Grid for Future**

- Tony Chung (University of Saskatchewan) – U of S PSRW smart grid research/partnership initiatives
- Elemer Demeter (SaskPower) - Changing technologies, changing utilities: impact on engineering education curriculum
- Kevin Hudson (Saskatoon Light & Power) – Advanced Metering Infrastructure & Smart Grid Applications
- Gary Fitzpatrick (Primary Engineering, Calgary) – High Reliability and High Density Network Systems

**October 25, Wednesday:**

#### **Session 15: Energy Storage**

- 1570371974: Economy of Residential Photovoltaic Generation and Battery Energy Storage in Alberta, Canada. Shida Zhang; Rodrigo Martins; Mustafa Gul; Petr Musilek
- 1570369953: Investigation of BESSs' Benefits in Transmission and Distribution Systems Operations Using Integrated Power Grid Co-optimization. Seyed Masoud Mohseni-Bonab; Innocent Kamwa; Ali Moeini; Abbas Rabiee
- 1570367802: Control of Microgrids with Distributed Energy Storage Operating in Islanded Mode. Chu Sun; Geza Joos; Francois Bouffard
- 1570373490: Distributed Energy Storage Operation Strategy for Retailers Based on Evolutionary Game Theory. Yi Zhang; Qixin Chen; Qing Xia; Fenyu Huangfu

#### **Session 16: Electricity Markets**

- 1570372320: Proactive Planning and Activation of Manual Reserves in Sequentially Cleared Balancing Markets. Martin Håberg; Gerard Doorman
- 1570372358: Investigation of Net Metering as a Tool for Increasing Electricity Access in Developing Countries. Chukwuma Leonard Azimoh; Oliver Dzobo; Charles Mbohwa
- 1570373459: A Novel Multiple Fuels' Cost Function for Realistic Economic Load Dispatch Needs. Ali R. Al-Roomi; Mohamed E. El-Hawary
- 1570378984: Probabilistic Commercial Load Profiles at Different Climate Zones. Sami Alshareef; Walid Morsi

#### **Session 17: Resource Prediction and Forecasting Methods**

- 1570364493: An Advanced Multistage Multi-Step Tidal Current Speed and Direction Prediction Model. Nima Safari; Benyamin Khorramdel; Alreza Zare; Chi Yung Chung
- 1570370337: A Spatiotemporal Wind Power Prediction Based on Wavelet Decomposition, Feature Selection, and Localized Prediction Nima. Safari; Yiwen Chen; Benyamin Khorramdel; Le-Ping Mao; Chi Yung Chung

3. 1570376018: Short-Term Load Forecasting Based on Higher Order Partial Least Squares (HOPLS). Jiangfeng Jiang; Gengfeng Li; Zhaohong Bie; Huan Xu
4. 1570368354: Fuzzy Logic Based Parameter Adjustment Model for Adaptive Decayed Brain Emotional Learning Network with Application to Online Time Series Prediction. Houssen. S. A. Milad; Umar Farooq; Mohamed E. El-Hawary; Valentina E. Balas; Muhammad Usman Asad

### **Session 18: Reliability, Resiliency & Cyber Security**

1. 1570371425: A Low Power Cybersecurity Mechanism for WSNs in a Smart Grid Environment. Gurpreet Singh Dhunna; Irfan S. Al-Anbagi
2. 1570372050: Maximization of Reliability of Stochastic Multiple Machines Power System Based on the Quasi Hamiltonian System. Xue Lin; Ping Ju; Lixia Sun
3. 1570372209: A Quantified Resilience Assessment Approach for Electrical Power Systems Considering Multiple Transmission Line Outages. Xiaonan Liu; Kai Hou; Jia Hongjie; Yunfei Mu; Xiaodan Yu; Yue Wang; Jialin Dong
4. 1570397336 : Detecting a Distributed Denial of Service Attack Using a Pre-processed Convolutional Neural Network. Maryam Ghanbari, Witold Kinsner, and Ken Ferens

### **Poster Presentations - October 25, Wednesday:**

#### **Poster Session (Battleford Room)**

1. 1570361515: Grid Search Optimization Techniques for the Indirect Vector-Controlled Induction Motor Drives. Fuzi Lftisi; Glyn George; Casey Butt; Adel Aktaibi; Aziz Rahman
2. 1570362257: Application of Flexible Alternating-Current Transmission System in Jiangsu Power Grid. Hui Cai; Siqi Bu; Tianran Yin; Xi Wu
3. 1570363677: Long-term Charging Demand Modeling and Analysis. Yi Zhang; Bin Chen; Yue Xiang; Wei Yang; Junyong Liu; Youbo Liu
4. 1570364186: A Novel Life Evaluation Algorithm of XLPE Power Cables Based on Biclustering. Zijian Tan; Guoyan Chen; Le Luan; Zeyuan Yu; Ran Zhang; Wenhui Tang
5. 1570364591: CCM-DCM Average Current Control for Both Continuous and Discontinuous Conduction Modes Boost PFC Converters. Lei Wang; Qinghua Wu; Wenhui Tang; Zeyuan Yu; Wei Ma
6. 1570366875: Ant-Based Optimal Tuning of PID Controllers for Load Frequency Control in Power Systems. Michael Bernard; Petr Musilek
7. 1570367824: Assessment of Aggregated Wind Farm Dynamic Models Under Weak Grid Conditions. Mohammed Morgan; Amgad A. El-Deib; Magdy El-Marsafawy
8. 1570367864: Feasibility Study of Cogeneration for A Gas Power Plant. Pooya Taheri
9. 1570369647: Probabilistic Load Flow Analysis for ADN Optimal Operation. Wei Huang; Shuwen Yang; Liangliang Hua; Zhaorui Guo; Juan Wu; Liangjun Ge
10. 1570370086: Optimal Dispatching for Active Distribution Network with Wind-battery Hybrid Power System. Yuwei Ma; Guibin Zou; Meiyi Hou; Qinglu Dong; Jingjing Yang
11. 1570372024: Feeder Optimization Planning Considering the Access of Distributed Generation. Wei Luo; Youzhong Miao; Weimin Lei; Yuan Zhang; Ningke Li; Yue Yin
12. 1570372096: Analytic Approximation of Fault Current Contributed by DC Capacitors in VSC-HVDC Pole-to-pole Fault. Yueyang Ma; Guibin Zou; Zhanjun Gao; Chenjun Sun; Tao Du; Yingliang Liu
13. 1570372156: Characteristics Analysis and Practical Model of UHVDC Systems Under Large Disturbance. Jian Zhao; Ping Ju; Qian Chen; Xue Lin; Chuan Qin
14. 1570372162: Simulation on Power Characteristic of UHVDC During Commutation Failure and DC Block. Fanfan Li; Qian Chen; Xue Lin; Ping Ju; Haoqing Xiong; Xin Shan; Bo Wang; Chuan Qin; Jian Zhao; Meng Jiang
15. 1570372371: A Linear Programming Model for Coordinated Low- Carbon Generation and Transmission Expansion Planning. Vahid Asgharian; Morad Abdelaziz
16. 1570372415: An Overview of Optimization Methods for Tidal Instream and Wind Turbines Farms. Ali Fituri; Hamed Aly; Mohamed E. El-Hawary
17. 1570372417: An Overview of Forecasting Techniques for Load, Wind and Solar Powers. Gamal Aburiyana; Mohamed E. El-Hawary
18. 1570372914: Characterization of Commercial LED Lamps for Power Quality Studies. Radwa Abdalaal; Carl Ho
19. 1570372955: An Improved Alternate-Phase-Opposition-Disposition (APOD) PWM Method for High-Order Filters Based on Neutral-Point-Clamped Inverters. Jiazhi Liang; Poh Chiang Loh; Fen Tang; Jiuchun Jiang
20. 1570372960: Analysis of Time-Delay Compensation for the Synchronous Rotating Frame Current Control System of LCL-Filtered High-Power Converters with Low Pulse-Ratio. Qi Xiao; Fen Tang; Zhen Xin; Jiayu Zhou; Poh Chiang Loh

21. 1570373193: An Online Framework for Integration of Demand Response in Residential Load Management. Shamwilu Ahmed; Francois Bouffard
22. 1570373457: Optimal Power Flow Incorporating Wind Energy and Load Reduction by BH Algorithm and KOA Algorithm. Zakareya Hasan; Mohamed E. El-Hawary
23. 1570373460: Effective Weather/Frequency-Based Transmission Line Models—Part I: Fundamental Equations. Ali R. Al-Roomi; Mohamed E. El-Hawary
24. 1570373461: Effective Weather/Frequency-Based Transmission Line Models—Part II: Prospective Applications. Ali R. Al-Roomi; Mohamed E. El-Hawary
25. 1570373465: Fixed Head Hydrothermal Scheduling Incorporating Wind Energy by Khums Optimization Algorithm. Zakareya Hasan; Mohamed E. El-Hawary
26. 1570373670: A New Modified Maximum Power Extraction Technique for Wind and Hybrid Renewable Energy Systems. Kajanjan Kanathipan; John Lam
27. 1570374410: Application of Affine NARMA Model to Design of Adaptive Power System Stabilizer. Jingsen Zhou; Deping Ke; Chi Yung Chung
28. 1570375967: Adaptive Hysteresis Current Control of Active Power Filters for Power Quality Improvement. Allal El Moubarek Bouzid; Pierre Sicard; Ahmed Cheriti; Hicham Chaoui; Paul Makanga Koumba
29. 1570377727: Design and Implementation of Laboratory Scale Static Var Compensator to Demonstrate Dynamic Load Balancing and Power Factor Correction. Vianey Mateo; Aniruddha Gole; Carl Ho
30. 1570380400: Cuckoo-Search Optimized Fuzzy-Logic Control of Stationary Battery Storage Systems. Cong Nam Truong; Daniel May; Rodrigo Martins; Petr Musilek; Andreas Jossen; Holger C Hesse
31. 1570380403: Scheduling of Electrical Vehicle Charging for a Charging Facility with Single Charger. Bala Venkatesh; Isuru Vidanalage; Ricardo Torquato; Walimir Freitas