

**Links**

- Official website <https://epec2020.ieee.ca/>  
 Vimeo account <https://vimeo.com/epec2020/albums>  
 EDAS site <https://edas.info/showConferenceDetails.php?c=27139>

**Welcome messages**

- IEEE Canada President <https://vimeo.com/epec2020/welcome-by-ieee-canada-president>  
 EPEC General Co-Chairs <https://vimeo.com/epec2020/welcome-by-general-cochairs>



**EPEC 2020 in numbers:**

- > 200 attendees
- 166 papers submitted by authors from 35 countries
- 126 papers accepted
- 11 tracks
- 8 keynotes by distinguished presenters from Canada, US, and China
- 8 tutorials by instructors from Canada, US, and China
- 7 panels (3 Industry, 3 Humanitarian, 1 Women in Energy)
- 1 symposium (The Second Richard Marceau Energy Symposium)

**LIVE Sessions**

Date/Time	Link to recordings	Keynotes	Session	Instructor	Instructor Affiliations
Monday Nov. 9 08:00-08:50 MST	<a href="https://vimeo.com/epec2020/keynote-1-doncker">https://vimeo.com/epec2020/keynote-1-doncker</a>	Renewables and eMobility – Partners in Realizing the Energy Transition?	<a href="#">Keynotes</a>	<a href="#">Dr. Rik W. De Doncker</a>	Professor and Director at E.ON Energy Research Center, RWTH Aachen University, Germany
Monday Nov. 9 08:55-09:35 MST	<a href="https://vimeo.com/epec2020/keynote2-ponci">https://vimeo.com/epec2020/keynote2-ponci</a>	Monitoring the grid in transition	<a href="#">Keynotes</a>	<a href="#">Dr. Ferdinanda Ponci</a>	Professor at E.ON Energy Research Center, RWTH Aachen University, Germany
Monday Nov. 9 09:40-10:15 MST	<a href="https://vimeo.com/epec2020/keynote-3-monti">https://vimeo.com/epec2020/keynote-3-monti</a>	The EU approach to the digitalization of the energy system	<a href="#">Keynotes</a>	<a href="#">Dr. Antonello Monti</a>	Director of the Institute for Automation of Complex Power System at RWTH Aachen University, Germany
Monday Nov. 9 13:00-13:55 MST	<a href="https://zoom.us/j/95702805045?pwd=R0hoaz25BZ2tidmxNSEhKc3lITHhMz09">https://zoom.us/j/95702805045?pwd=R0hoaz25BZ2tidmxNSEhKc3lITHhMz09</a>	Grid Modernization: Technological Advancements Beyond Smart Grid	<a href="#">Keynotes</a>	<a href="#">John D. McDonald, P.E.</a>	Smart Grid Business Development Leader at GE Grid Solutions
Monday Nov. 9 15:30-16:25 MST	<a href="https://vimeo.com/epec2020/keynote-5-shirt">https://vimeo.com/epec2020/keynote-5-shirt</a>	Taking a Value Chain Approach to Energy Transformation	<a href="#">Keynotes</a>	<a href="#">Elizabeth Shirt</a>	Managing Director at GLOBE Series
Tuesday Nov. 10 08:00-09:00 MST	<a href="https://zoom.us/j/93474727802?pwd=UHIncjE2b3VibU9KRVRZd0R5THJlUT09">https://zoom.us/j/93474727802?pwd=UHIncjE2b3VibU9KRVRZd0R5THJlUT09</a>	Analytics-Driven Cyber-Physical Security for a Converged Smart Grid	<a href="#">Keynotes</a>	<a href="#">Dr. Deepa Kundur</a>	Professor & Chair at The Edward S. Rogers Sr. Department of Electrical & Computer Engineering at University of Toronto
Tuesday Nov. 10 12:30-13:30 MST	<a href="https://zoom.us/j/96329729588?pwd=NlIDZVVuMVVZUHDRCnVxblpac2RYQT09">https://zoom.us/j/96329729588?pwd=NlIDZVVuMVVZUHDRCnVxblpac2RYQT09</a>	Role of the Smart Grid in Facilitating the Integration of Renewables	<a href="#">Keynotes</a>	<a href="#">Dr. Saifur Rahman</a>	Professor and Director at Virginia Tech Advanced Research Institute
Tuesday Nov. 10 15:30-16:25 MST	<a href="https://zoom.us/j/97557444633?pwd=aUJlY2grRlJlXTErSm5lMnczd3dCQT09">https://zoom.us/j/97557444633?pwd=aUJlY2grRlJlXTErSm5lMnczd3dCQT09</a>	How Long can Lithium-ion batteries last for grid energy storage and vehicle to grid applications	<a href="#">Keynotes</a>	<a href="#">Dr. Jeff Dahn</a>	Professor at Dalhousie University and NSERC/Tesla Canada Industrial Research Chair
Date/Time	LIVE Zoom link	Panels and Symposium	Session	Panelists	
Monday Nov. 9 10:25-12:25 MST	<a href="https://zoom.us/j/97790001839?pwd=SmNtWTA5bitOV3hZ2lBTm5lL1Zwdz09">https://zoom.us/j/97790001839?pwd=SmNtWTA5bitOV3hZ2lBTm5lL1Zwdz09</a>	Industrial Panel #1: Envisioning the Future Mix of Energy and The Role of Nuclear, Hydrogen and Others	<a href="#">Panels and Workshops</a>	<a href="#">Theresa Dekker, Nicolas Pocard, Keith Yasinski, Jeff Reid</a>	
Tuesday Nov. 10 10:00-12:00 MST	<a href="https://zoom.us/j/93173056600?pwd=bFo4VnJldXhSeG5lWEhBdHpreWQ2dz09">https://zoom.us/j/93173056600?pwd=bFo4VnJldXhSeG5lWEhBdHpreWQ2dz09</a>	Industrial Panel #2: Regional Grid Interconnections and Integration of Renewables	<a href="#">Panels and Workshops</a>	<a href="#">Frank Qiankun Wang, Channa Perera, Amir Motamedi, Tim Eckle, Philip Martin Duguzo</a>	
Thursday Nov. 12 08:00-09:30 MST	<a href="https://zoom.us/j/98455688232?pwd=cDd5Ni9HZVFMys4R0JGwKfUaksydz09">https://zoom.us/j/98455688232?pwd=cDd5Ni9HZVFMys4R0JGwKfUaksydz09</a>	Industrial Panel #3: Critical Infrastructure Enabling Indigenous Empowerment	<a href="#">Panels and Workshops</a>	<a href="#">Margaret Kenequanash, Guy Lonechild, Lisa Clarke, Jordan Baptiste</a>	
Thursday Nov. 12 09:35-12:00 MST	<a href="https://zoom.us/j/94725228148?pwd=dmpBTmRwazBrM3VlcDc1UijqbmVUUT09">https://zoom.us/j/94725228148?pwd=dmpBTmRwazBrM3VlcDc1UijqbmVUUT09</a>	Humanitarian Technology Panel 1: Improving Energy Efficiency of Electrical Distribution Systems in Commercial Buildings	<a href="#">Panels and Workshops</a>	<a href="#">Dr. Constantin Pitis, Dr. Ali Palizban</a>	
		Humanitarian Technology Panel 2: Harnessing the Wind Power Technology	<a href="#">Panels and Workshops</a>	<a href="#">Pooya Taheri</a>	
		Humanitarian Technology Panel 3: Smart Microgrids and their impact on transition to Green Economy	<a href="#">Panels and Workshops</a>	<a href="#">Dr. Hassan Farhangi</a>	
Thursday Nov. 12 12:30-14:00 MST	<a href="https://zoom.us/j/98020061746?pwd=QWh2SG5lSWNaTnRGYXESWldiVG41Zz09">https://zoom.us/j/98020061746?pwd=QWh2SG5lSWNaTnRGYXESWldiVG41Zz09</a>	Women in Engineering (WIE) Panel Session	<a href="#">Panels and Workshops</a>	<a href="#">Dr. Lianne Lefsrud, Terri-Lynn Duque, Monique Soboren, Jeanie Chin, Dr. Raymond Matthias</a>	
Thursday Nov. 12 14:05-16:00 MST	<a href="https://zoom.us/j/97093960662?pwd=RGVIM3FwMWRlZlUjMkxpcV1hVfFdZQT09">https://zoom.us/j/97093960662?pwd=RGVIM3FwMWRlZlUjMkxpcV1hVfFdZQT09</a>	The Second Richard Marceau Energy Symposium	<a href="#">Panels and Workshops</a>	<a href="#">A collaboration by Bowman Centre for Sustainable Energy, Canadian Academy of Engineering, and IEEE EPEC 2020</a>	

Date/Time	LIVE Zoom or Vimeo link	Tutorial	Session	Instructor	Instructor Affiliations	
Monday Nov. 9 14:05-15:05 MST	<a href="https://zoom.us/j/98521319236?pwd=SU1ETGxNQUR6UVRncUFUGVCOVtdz09">https://zoom.us/j/98521319236?pwd=SU1ETGxNQUR6UVRncUFUGVCOVtdz09</a>	1547-2018 – IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces	Tutorial	<a href="#">Dr. Babak Enayati</a>	Technology Deployment Manager at National Grid, USA	
Offline	<a href="https://vimeo.com/epcec2020/tutorial-02-omid-ardakanian">https://vimeo.com/epcec2020/tutorial-02-omid-ardakanian</a>	Learning-based Control of Distributed Energy Resources	Tutorial	<a href="#">Dr. Omid Ardakanian</a>	Computer Science Assistant Professor at the University of Alberta and a Principal investigator of Future Energy Systems	
Offline	<a href="https://vimeo.com/epcec2020/tutorial-03-chen">https://vimeo.com/epcec2020/tutorial-03-chen</a>	Electric Power System Resilience	Tutorial	<a href="#">Dr. Chen Chen</a>	Electrical Engineering Professor at Xi'an Jiaotong University	
Offline	<a href="https://vimeo.com/epcec2020/tutorial-04-li-quan">https://vimeo.com/epcec2020/tutorial-04-li-quan</a>	Grid-Tied Parallel Voltage Source Converters: Applications, Control and Modulation Techniques	Tutorial	<a href="#">Dr. Yunwei (Ryan) Li, Dr. Zhongyi Quan</a>	Dr. Yunwei Li (P.Eng., Professor University of Alberta), Dr. Zhongyi Quan (Post-Doctoral Researcher, University of Alberta)	
Offline	<a href="https://vimeo.com/epcec2020/tutorial-05-hadis-karimipour">https://vimeo.com/epcec2020/tutorial-05-hadis-karimipour</a>	AI-enabled Cyber Security Analysis in Smart Cyber-physical Grids	Tutorial	<a href="#">Dr. Hadis Karimipour</a>	Director of the Smart Cyber-physical System (SCPS) Lab and an Assistant Professor at School of Engineering University of Guelph	
Offline	<a href="https://vimeo.com/epcec2020/tutorial-06-christine-chen">https://vimeo.com/epcec2020/tutorial-06-christine-chen</a>	Connecting the Distributed Slack Bus to Power System Dynamics and Operations	Tutorial	<a href="#">Dr. Christine Chen</a>	Assistant Professor, Department of Electrical and Computer Engineering, University of British Columbia	
Offline	<a href="https://vimeo.com/epcec2020/tutorial-07-kuffel-golsborough-humud-said">https://vimeo.com/epcec2020/tutorial-07-kuffel-golsborough-humud-said</a>	HVdc Integration and Project Lessons Learned	Tutorial	<a href="#">Peter Kuffel, Marianne Golsborough, Humud Said</a>	Peter Kuffel (P.Eng., director at HVdc One Inc), Marianne Golsborough (P.Eng., HVdc One Inc), Humud Said (P.Eng., ATCO)	
Offline	<a href="https://vimeo.com/epcec2020/tutorial-08-liu">https://vimeo.com/epcec2020/tutorial-08-liu</a>	Introduction of IEEE PES-TR83: Power System Resilience Framework, Method and Metrics	Tutorial	<a href="#">Jay Liu</a>	Senior Lead Engineer at PJM	
Paper #	Vimeo link	EDAS link	Paper Title	Technical Track	Authors	Authors Affiliations
1570641829	<a href="https://vimeo.com/1570641829">1570641829</a>	<a href="https://edas.com/1570641829">1570641829</a>	Cost Optimized Load Allocation for Dual Radial Customers	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Matthew Yee; Vinson Kan	Matthew Yee and Vinson Kan (Toronto Hydro, Canada)
1570642206	<a href="https://vimeo.com/1570642206">1570642206</a>	<a href="https://edas.com/1570642206">1570642206</a>	Analysis of Empirical Mode Decomposition-based Load and Renewable Time Series Forecasting	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Nima Safari; George Price; Chi Yung Chung	Nima Safari and George Price (SaskPower, Canada); Chi Yung Chung (University of Saskatchewan, Canada)
1570650782	<a href="https://vimeo.com/1570650782">1570650782</a>	<a href="https://edas.com/1570650782">1570650782</a>	Representative Profiling of Prosumers with Local Distributed Energy Resources and Electric Vehicles Using Unsupervised Machine Learning	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Daniel Mabuggwe; Walid Morsi	Daniel Mabuggwe (Ontario Tech University, Canada); Walid Morsi (University of Ontario Institute of Technology, Canada)
1570652350	<a href="https://vimeo.com/1570652350">1570652350</a>	<a href="https://edas.com/1570652350">1570652350</a>	Scenario Selection for Generation Expansion Planning with Demand and Wind Uncertainty	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Yasaman Mozafari; Bill Rosehart	Yasaman Mozafari and Bill Rosehart (University of Calgary, Canada)
1570652508	<a href="https://vimeo.com/1570652508">1570652508</a>	<a href="https://edas.com/1570652508">1570652508</a>	Fast AI-Based Power Flow Analysis for High-Dimensional Electric Networks	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Ali R. Al-Roomi; Mohamed E. El-Hawary	Ali R. Al-Roomi and Mohamed E. El-Hawary (Dalhousie University, Canada)
1570652713	<a href="https://vimeo.com/1570652713">1570652713</a>	<a href="https://edas.com/1570652713">1570652713</a>	Dependent Wind Speed Models: Copula Approach	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Md Amimul Ehsan; Amir Shahirinia; Jeff Gill; Nian Zhang	Md Amimul Ehsan and Amir Shahirinia (University of the District of Columbia, USA); Jeff Gill (American University, USA); Nian Zhang (University of the District of Columbia, USA)
1570653172	<a href="https://vimeo.com/1570653172">1570653172</a>	<a href="https://edas.com/1570653172">1570653172</a>	Peak-Load Forecasting of Nova Scotia During Winter Using Support Vector Machine with Optimally Configured Hyperparameters	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Ali R. Al-Roomi; Mohamed E. El-Hawary	Ali R. Al-Roomi and Mohamed E. El-Hawary (Dalhousie University, Canada)
1570655645	<a href="https://vimeo.com/1570655645">1570655645</a>	<a href="https://edas.com/1570655645">1570655645</a>	A Two-Stage Deep-Learning Based Detection Method for Pipeline Leakage and Transient Conditions	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Iman Amini; Yindi Jing; Tongwen Chen; Amanda Colin; Gordon Meyer	Iman Amini, Yindi Jing and Tongwen Chen (University of Alberta, Canada); Amanda Colin and Gordon Meyer (Suncor Energy Logistics Corporation, Canada)
1570655769	<a href="https://vimeo.com/1570655769">1570655769</a>	<a href="https://edas.com/1570655769">1570655769</a>	Smart Meters Tackling Energy Poverty Mitigation: Uses, Risks and Approaches	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Lluc Canals Casals; Sergio Tirado; Mattia Barbero; Cristina Corchero	Lluc Canals Casals (Universitat Politècnica de Catalunya & Catalonia Institute for Energy Research, Spain); Sergio Tirado (Universitat Autònoma de Barcelona, Spain); Mattia Barbero and Cristina Corchero (Catalonia Institute for Energy Research, Spain)
1570656851	<a href="https://vimeo.com/1570656851">1570656851</a>	<a href="https://edas.com/1570656851">1570656851</a>	Artificial Bee Colony-Based Routing for Mobile Agents on the Internet of Things	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Shamim Yousefi; Farnaz Derakhshan; Hadis Karimipour	Shamim Yousefi and Farnaz Derakhshan (University of Tabriz, Iran); Hadis Karimipour (University of Guelph, Canada)
1570657209	<a href="https://vimeo.com/1570657209">1570657209</a>	<a href="https://edas.com/1570657209">1570657209</a>	A Comparative Analysis of Machine Learning Models for Prediction of Passing Bachelor Admission Test in Life-Science Faculty of a Public University in Bangladesh	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Md. Abul Ala Walid; S. M. Masum Ahmed; S M Shibly Sadique	Md. Abul Ala Walid (Bangabandhu Sheikh Mujibur Rahman Science and Technology University (BSMRSTU), Bangladesh); S. M. Masum Ahmed (University of Mons (Umons)); S M Shibly Sadique (Bangabandhu Sheikh Mujibur Rahman Science and Technology University (BSMRSTU), Bangladesh)
1570657576	<a href="https://vimeo.com/1570657576">1570657576</a>	<a href="https://edas.com/1570657576">1570657576</a>	A CPFL Energia Fraud Detection Model Based on Geographic Census Sectors Analysis	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Flavio Alceu; Lidia G Gusmão; Douglas Akassaka; Hugo Helito	Flavio Alceu, Lidia G Gusmão, Douglas Akassaka and Hugo Helito (CPFL Energia, Brazil)
1570658197	<a href="https://vimeo.com/1570658197">1570658197</a>	<a href="https://edas.com/1570658197">1570658197</a>	Contouring Method Considerations for Power Systems Applications	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Jessica L. Wert; Zeyu Mao; Hanyue Li; Thomas J. Overbye	Jessica L. Wert, Zeyu Mao, Hanyue Li and Thomas J. Overbye (Texas A&M University, USA)
1570659090	<a href="https://vimeo.com/1570659090">1570659090</a>	<a href="https://edas.com/1570659090">1570659090</a>	Comparison of the Smith-Waterman and Needleman-Wunsch Algorithms for Online Similarity Analysis of Industrial Alarm Floods	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Md Rezwana Parvez; Wenkai Hu; Tongwen Chen	Md Rezwana Parvez (University of Alberta, Canada); Wenkai Hu (China University of Geosciences, China); Tongwen Chen (University of Alberta, Canada)
1570663781	<a href="https://vimeo.com/1570663781">1570663781</a>	<a href="https://edas.com/1570663781">1570663781</a>	A Prediction Interval Based Cascading Failure Prediction Model for Power Systems	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Mohamed O Mahgoub; Seyed Mahdi Mazhari; Chi Yung Chung; Sherif Faried	Mohamed O Mahgoub (University of Saskatchewan, Canada); Seyed Mahdi Mazhari (University of Tehran, Iran); Chi Yung Chung and Sherif Faried (University of Saskatchewan, Canada)
1570664068	<a href="https://vimeo.com/1570664068">1570664068</a>	<a href="https://edas.com/1570664068">1570664068</a>	Multi-Unit Market-Based Mechanism Design in Cloud Secondary Markets	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Seyed Mohammad Reza Dibaj; Ali Miri; Seyed Akbar Mostafavi	Seyed Mohammad Reza Dibaj and Ali Miri (Ryerson University, Canada); Seyed Akbar Mostafavi (Yazd University, Iran)

Paper #	Vimeo link	EDAS link	Paper Title	Technical Track	Authors	Authors Affiliations
1570672383	<a href="#">1570672383</a>	<a href="#">1570672383</a>	A Reinforcement Learning Based Power System Stabilizer for a Grid Connected Wind Energy Conversion System	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Rahul Kosuru; Pengcheng Chen; Shichao Liu	Rahul Kosuru (Carleton University, Canada); Pengcheng Chen (Zhejiang univ of tech, China); Shichao Liu (Carleton University, Canada)
1570674004	<a href="#">1570674004</a>	<a href="#">1570674004</a>	An Efficient Method to Discover Association Rules of Mode-Dependent Alarms Based on the FP-Growth Algorithm	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Kai Ru Wang; Wenkai Hu; Tongwen Chen	Kai Ru Wang (University of Alberta, Canada); Wenkai Hu (China University of Geosciences, China); Tongwen Chen (University of Alberta, Canada)
1570675207	<a href="#">1570675207</a>	<a href="#">1570675207</a>	Ensemble Learning for Charging Load Forecasting of Electric Vehicle Charging Stations	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Xingshuai Huang; DI WU; Benoit Boulet	Xingshuai Huang (McGill University, China); DI WU and Benoit Boulet (McGill University, Canada)
1570675338	<a href="#">1570675338</a>	<a href="#">1570675338</a>	Deep Reinforcement Learning for Electric Transmission Voltage Control	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Brandon L Thayer; Thomas J. Overbye	Brandon L Thayer (USA); Thomas J. Overbye (Texas A&M University, USA)
1570675400	<a href="#">1570675400</a>	<a href="#">1570675400</a>	A Review of Recent Advances on Reinforcement Learning for Smart Home Energy Management	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Huiliang Zhang; DI WU; Benoit Boulet	Huiliang Zhang, DI WU and Benoit Boulet (McGill University, Canada)
1570675562	<a href="#">1570675562</a>	<a href="#">1570675562</a>	BC Hydro's Methodology for Distribution Technical Loss Estimation Using Smart Technologies	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Jae Sung Park; Alice Cheung; James Proffitt; Parvir Girn	Jae Sung Park, Alice Cheung, James Proffitt and Parvir Girn (BC Hydro, Canada)
1570675592	<a href="#">1570675592</a>	<a href="#">1570675592</a>	Computational Acquisition of Meteorological Data for Applications in Electric Power Systems	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Nigel J Woodhouse; Petr Musilek	Nigel J Woodhouse and Petr Musilek (University of Alberta, Canada)
1570675645	<a href="#">1570675645</a>	<a href="#">1570675645</a>	GridKG: Knowledge Graph Representation of Distribution Grid Data	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Yashar Kor; Liang Tan; Marek Reformat; Petr Musilek	Yashar Kor, Liang Tan, Marek Reformat and Petr Musilek (University of Alberta, Canada)
1570679876	<a href="#">1570679876</a>	<a href="#">1570679876</a>	Electric Vehicle User Behavior Prediction Using Learning-Based Approaches	<a href="#">Applications of Data Analytics, Artificial Intelligence, Machine Learning</a>	Sara Khan; Boris Brandherm; Anilkumar Swamy	Sara Khan (University of Saarland, Germany); Boris Brandherm (Deutsche Forschungszentrum für Künstliche Intelligenz GmbH, Germany); Anilkumar Swamy (University of Saarland, Germany)
1570653280	<a href="#">1570653280</a>	<a href="#">1570653280</a>	The Impact of Cybersecurity on Siting Distributed Generation Units in AC Power Systems	<a href="#">Cyber Security</a>	Jay Nayak; Irfan S. Al-Anbagi	Jay Nayak and Irfan S. Al-Anbagi (Faculty of Engineering and Applied Science, University of Regina, Canada)
1570673623	<a href="#">1570673623</a>	<a href="#">1570673623</a>	Decoy-Based Moving Target Defense Against Cyber-Physical Attacks on Smart Grid	<a href="#">Cyber Security</a>	Ahmed Abdelwahab; Walter Lucia; Amr Youssef	Ahmed Abdelwahab, Walter Lucia and Amr Youssef (Concordia University, Canada)
1570660497	<a href="#">1570660497</a>	<a href="#">1570660497</a>	Live Work Insulation Considerations on HVDC Lines	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Shan Jiang; Peter Kuffel; Ram Adapa	Shan Jiang ( & ATCO Electric, Canada); Peter Kuffel ( & HVdc One, Canada); Ram Adapa (Electric Power Research Institute, USA)
1570662156	<a href="#">1570662156</a>	<a href="#">1570662156</a>	Impact of Dead-Band Time on the Harmonic Spectrum of Power Converters	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Jigneshkumar Patel; Vijay K. Sood	Jigneshkumar Patel (UOIT, Canada); Vijay K. Sood (Ontario Tech University, Canada)
1570662958	<a href="#">1570662958</a>	<a href="#">1570662958</a>	Improvement of Input Current THD of Cascaded H-Bridge Multilevel Inverters Under Faulty Condition	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Sahar Tahzibi; Alireza Siadatan; Reza Babaloo; Jacob Gotlieb	Sahar Tahzibi (Politecnico di Milano, Italy); Alireza Siadatan (University of Toronto, Canada); Reza Babaloo (Politecnico di Milano, Italy); Jacob Gotlieb (University of British Columbia, Canada)
1570664011	<a href="#">1570664011</a>	<a href="#">1570664011</a>	Robust H $\infty$ Dynamic Output-Feedback Control of Power Oscillation Damped via VSC-HVDC Transmission Systems	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Yankai Xing; Elkhatib Kamal; Marinescu Bogdan; Xavier Florent	Yankai Xing and Elkhatib Kamal (Ecole Centrale de Nantes, LS2N-CNRS, France); Marinescu Bogdan (Ecole Centrale de Nantes, France); Xavier Florent (RTE-R&D, France)
1570665219	<a href="#">1570665219</a>	<a href="#">1570665219</a>	Multi-FPGA Communication Interface for Electric Circuit Co-Simulation	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Michel Lemaire; Daniel Massicotte; Jean Belanger	Michel Lemaire (Université du Québec à Trois-Rivières, Canada); Daniel Massicotte (Université du Québec à Trois-Rivières, Canada); Jean Belanger (Opal-RT Technologies, Canada)
1570667298	<a href="#">1570667298</a>	<a href="#">1570667298</a>	EMT Implementation and Validation of MPC for VSC-HVDC Embedded in AC Meshed Grid	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Emile Thau; Elkhatib Kamal; Marinescu Bogdan; Guillaume Denis	Emile Thau and Elkhatib Kamal (Ecole Centrale de Nantes, LS2N-CNRS, France); Marinescu Bogdan (Ecole Centrale de Nantes, France); Guillaume Denis (RTE R&D Division, France)
1570669005	<a href="#">1570669005</a>	<a href="#">1570669005</a>	Fourth-Order Minimum-Phase Boost Converters Using Reverse-Coupled Inductors	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Saman A. Gorji; Hosein G. Sahebi; Mohammad Hosein Holakooie	Saman A. Gorji (Queensland University of Technology, Australia); Hosein G. Sahebi (Babol Noshirvani University of Technology, Iran); Mohammad Hosein Holakooie (Warsaw University of Technology, Poland)
1570672527	<a href="#">1570672527</a>	<a href="#">1570672527</a>	A Generalized Procedure to Develop DC Switchyard for MTDC Grids	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Vekhande Vishal; J Sivaprasad; Vinothkumar K; Sridhar Alapatti; Jwala Rao; Saikat Karmakar	Vekhande Vishal (Sedemac Mechatronics Pvt. Ltd., India); J Sivaprasad (Hitachi ABB Power Grids, Sweden); Vinothkumar K (Hitachi ABB Power Grids); Sridhar Alapatti (NKT HV Cables AB, India); Jwala Rao (Hitachi ABB Power Grids, India); Saikat Karmakar (GE Health Care, India)
1570672528	<a href="#">1570672528</a>	<a href="#">1570672528</a>	Feasibility Study of Adding a Third VSC Based HVDC Terminal on an Existing Point-Point LCC Based HVDC Transmission System	<a href="#">HVDC, FACTS, and High-Power Converters</a>	V Rakesh Reddy; Vinothkumar K; Hafner Ying-Jiang; Auddy Soubhik	V Rakesh Reddy (Hitachi ABB Power Grids, India); Vinothkumar K (Hitachi ABB Power Grids); Hafner Ying-Jiang and Auddy Soubhik (Hitachi ABB Power Grids, Sweden)
1570673061	<a href="#">1570673061</a>	<a href="#">1570673061</a>	Analysis of Symmetric and Asymmetric CHB-MLI Using MC Based SPWM and THI-PWM	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Jigneshkumar Patel; Vijay K. Sood	Jigneshkumar Patel (UOIT, Canada); Vijay K. Sood (Ontario Tech University, Canada)
1570674675	<a href="#">1570674675</a>	<a href="#">1570674675</a>	MMC Based PV Energy Integrated Multiterminal HVDC Transmission Network	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Md Ismail Hossain; Mohammad A. Abido; Ilius Pathan	Md Ismail Hossain (King Fahd University of Petroleum & Minerals, Saudi Arabia); Mohammad A. Abido (KFUPM, Saudi Arabia); Ilius Pathan (King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia)

Paper #	Vimeo link	EDAS link	Paper Title	Technical Track	Authors	Authors Affiliations
1570674772	<a href="#">1570674772</a>	<a href="#">1570674772</a>	PMSG Based Wind Energy Integration into MMC Based HVDC Transmission Network in RTDS	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Md Ismail Hossain; Mohammad A. Abido; Ilius Pathan	Md Ismail Hossain (King Fahd University of Petroleum & Minerals, Saudi Arabia); Mohammad A. Abido (KFUPM, Saudi Arabia); Ilius Pathan (King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia)
1570677651	<a href="#">1570677651</a>	<a href="#">1570677651</a>	Matrix Inverter: A Multilevel Inverter Based on Matrix Converter Switch Matrix	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Ahmad Syukri Mohamad	Ahmad Syukri Mohamad (Universiti Kuala Lumpur, Malaysia)
1570678481	<a href="#">1570678481</a>	<a href="#">1570678481</a>	State-Space Dynamic Model of Unified MMC Structure for Hybrid AC/DC Grids	<a href="#">HVDC, FACTS, and High-Power Converters</a>	Abraham Rojas Tarango; Gregory J Kish	Abraham Rojas Tarango and Gregory J Kish (University of Alberta, Canada)
1570637563	<a href="#">1570637563</a>	<a href="#">1570637563</a>	Fuzzy Based Energy Management System for a Micro-grid with a V2G Parking Lot	<a href="#">Microgrids and Isolated Grids</a>	Femina Mohammed Shakeel; Om P Malik	Femina Mohammed Shakeel and Om P Malik (University of Calgary, Canada)
1570640557	<a href="#">1570640557</a>	<a href="#">1570640557</a>	Voltage Control of Islanded Hybrid Micro-grids Using AI Technique	<a href="#">Microgrids and Isolated Grids</a>	Hossam E Keshta; Ahmed Ayman Ali; Om P Malik; Ebtisam Saied; Fahmy Bendary	Hossam E Keshta (Schulich School of Engineering, Calgary University & Faculty of Engineering at Shoubra, Benha University, Canada); Ahmed Ayman Ali (Faculty of Engineering, Helwan University, Egypt); Om P Malik (University of Calgary, Canada); Ebtisam Saied and Fahmy Bendary (Faculty of Engineering at Shoubra, Benha University, Egypt)
1570649508	<a href="#">1570649508</a>	<a href="#">1570649508</a>	An Analysis and Protection Scheme to Prevent Loss of Coordination Due to Microgrid Contributions: Part I - Short Circuit Predictions	<a href="#">Microgrids and Isolated Grids</a>	Keaton A. Wheeler; Sherif Faried	Keaton A. Wheeler and Sherif Faried (University of Saskatchewan, Canada)
1570649515	<a href="#">1570649515</a>	<a href="#">1570649515</a>	An Analysis and Protection Scheme to Prevent Loss of Coordination Due to Microgrid Contributions: Part II - Optimization and Mitigation	<a href="#">Microgrids and Isolated Grids</a>	Keaton A. Wheeler; Sherif Faried	Keaton A. Wheeler and Sherif Faried (University of Saskatchewan, Canada)
1570655361	<a href="#">1570655361</a>	<a href="#">1570655361</a>	Optimal Demand Management for Smart Distribution Networks	<a href="#">Microgrids and Isolated Grids</a>	Mohamed Wagdy; Amr Magdy; Walid El-Khattam	Mohamed Wagdy (Faculty of Engineering, Ain Shams University, Egypt); Amr Magdy (Faculty of Engineering Ain Shams University, Egypt); Walid El-Khattam (Faculty of Engineering, Ain Shams University, Egypt)
1570657109	<a href="#">1570657109</a>	<a href="#">1570657109</a>	Small Signal Modeling of Interleaved Voltage Balancer with Coupled-Inductor	<a href="#">Microgrids and Isolated Grids</a>	Hyung-Jun Byun; Jung-Min Park; Bum-Jun Kim; Sung-hun Kim; Chung-Yuen Won; Jun-Shin Yi	Hyung-Jun Byun and Jung-Min Park (Sungkyunkwan University, Korea (South)); Bum-Jun Kim (Sungkyunkwan Univ, Korea (South)); Sung-hun Kim and Chung-Yuen Won (Sungkyunkwan University, Korea (South)); Jun-Shin Yi (Sungkyunkwan University, Korea (South), Korea (South))
1570663486	<a href="#">1570663486</a>	<a href="#">1570663486</a>	Mitigating Islanded Mode Small Scale Synchronous Generator Mechanical Oscillations Caused by Electrical Arc Furnace	<a href="#">Microgrids and Isolated Grids</a>	Yashar Kor; Mahdi Davarpanah; Reza Bekhradian; Majid Sanaye-Pasand	Yashar Kor (University of Alberta, Canada); Mahdi Davarpanah, Reza Bekhradian and Majid Sanaye-Pasand (University of Tehran, Iran)
1570665239	<a href="#">1570665239</a>	<a href="#">1570665239</a>	Dynamic Performance Assessment of NG-MVDC Shipboard Power System with Distributed Electric Propulsions	<a href="#">Microgrids and Isolated Grids</a>	Zahra Shajari; Mehdi Savaghebi; Josep M. Guerrero; Mohammad Hossein Javidi	Zahra Shajari (Ferdowsi University of Mashhad, Iran); Mehdi Savaghebi and Josep M. Guerrero (Aalborg University, Denmark); Mohammad Hossein Javidi (Ferdowsi University of Mashhad, Iran)
1570673396	<a href="#">1570673396</a>	<a href="#">1570673396</a>	Micro-Grid Dynamic Economic Dispatch with Renewable Energy Resources Using Equilibrium Optimizer	<a href="#">Microgrids and Isolated Grids</a>	Mohamed Ebeed; Ahmed Rashad; Ali S Alghamdi; Salah Kamel	Mohamed Ebeed (Sohag University, Egypt); Ahmed Rashad (Upper Egypt Electricity Distribution Company, Qena Rural Electrification Sector, Egypt); Ali S Alghamdi (Majmaah University, Saudi Arabia); Salah Kamel (Aswan University, Egypt)
1570674001	<a href="#">1570674001</a>	<a href="#">1570674001</a>	A Bacterial Foraging Optimization Technique and Predictive Control Approach for Power Management in a Standalone Microgrid	<a href="#">Microgrids and Isolated Grids</a>	Félix Dubuisson; Amrish Chandra; Rezkallah Miloud; Hussein Ibrahim	Félix Dubuisson (Ecole de Technologie Supérieure, Canada); Amrish Chandra (Ecole de Technologie, Supérieure, Canada); Rezkallah Miloud (ETS & Institut Technologique de Maintenance Industrielle (ITMI), Canada); Hussein Ibrahim (Cegep de Sept-Îles & Institut Technologique de Maintenance Industrielle, Canada)
1570674006	<a href="#">1570674006</a>	<a href="#">1570674006</a>	Load Sharing Strategy Incorporating Power Limits in Islanded Inverter-Based Microgrids	<a href="#">Microgrids and Isolated Grids</a>	Chiebuka Eyiisi; Guanyu Tian; Petr Vorobe; Qifeng Li	Chiebuka Eyiisi and Guanyu Tian (University of Central Florida, USA); Petr Vorobe (Skolkovo Institute of Science & Technology, Russia); Qifeng Li (University of Central Florida, USA)
1570675475	<a href="#">1570675475</a>	<a href="#">1570675475</a>	Community Microgrid Energy Storage Sizing Considering EV Fleet Batteries as Supplemental Resource	<a href="#">Microgrids and Isolated Grids</a>	Qiyun Dang; DI WU; Benoit Boulet	Qiyun Dang (McGill University, Canada); DI WU and Benoit Boulet (McGill University, Canada)
1570675570	<a href="#">1570675570</a>	<a href="#">1570675570</a>	Smart Inverters for Seamless Reconnection of Isolated Residential Microgrids to Utility Grid	<a href="#">Microgrids and Isolated Grids</a>	Mohsen S. Pilehvar; Behrooz Mirafzal	Mohsen S. Pilehvar and Behrooz Mirafzal (Kansas State University, USA)
1570675576	<a href="#">1570675576</a>	<a href="#">1570675576</a>	Modelling Prime Diesel Electric Generator Fuel Consumption Across Genset Sizings	<a href="#">Microgrids and Isolated Grids</a>	Patrick T Giles; Michael Ross; Spencer R.D. Sumanik	Patrick T Giles and Michael Ross (Yukon University, Canada); Spencer R.D. Sumanik (Yukon College & Yukon Research Centre, Canada)
1570650620	<a href="#">1570650620</a>	<a href="#">1570650620</a>	Probabilistic Assessment of the Impact of Integrating Large-Scale High-Power Fast Charging Stations on the Power Quality in the Distribution Systems	<a href="#">Power Quality and Reliability</a>	Bishoy Basta; Walid Morsi	Bishoy Basta and Walid Morsi (University of Ontario Institute of Technology, Canada)
1570655772	<a href="#">1570655772</a>	<a href="#">1570655772</a>	Improving Power Quality Using SPWM Control in Modular Multilevel Converters	<a href="#">Power Quality and Reliability</a>	Djilali Hamza	Djilali Hamza (University of Ottawa, Canada)
1570656913	<a href="#">1570656913</a>	<a href="#">1570656913</a>	Event Tree Reliability Analysis of Electrical Power Generation Network Using Formal Techniques	<a href="#">Power Quality and Reliability</a>	Mohamed Abdelghany; Waqar Ahmad; Sofiene Tahar	Mohamed Abdelghany, Waqar Ahmad and Sofiene Tahar (Concordia University, Canada)

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1570657341	<a href="#">1570657341</a>	<a href="#">1570657341</a>	Influence of Thickness of Solid Insulators on Creeping Discharges Propagating over Epoxy and Glass Insulators Immersed in Coconut Oil	<a href="#">Power Quality and Reliability</a>	W. E. P. Sampath Ediriweera; K. L. I. M. Pramod B Jayarathna; Rasara Samarasinghe; Joseph Rohan Lucas	W. E. P. Sampath Ediriweera, K. L. I. M. Pramod B Jayarathna and Rasara Samarasinghe (University of Moratuwa, Sri Lanka); Joseph Rohan Lucas (University of Moratuwa & General Sir John Kothalawela Defence University, Sri Lanka)
1570657343	<a href="#">1570657343</a>	<a href="#">1570657343</a>	Determination of Magnetization Characteristics of a Three-Phase Transformer Using Inrush Current Waveform	<a href="#">Power Quality and Reliability</a>	Dohitha B Yapa; Danuka Yasuranda Benthavithana; Nirod Rathnaweera; Thushari Wimalarathna; Joseph Rohan Lucas; Rasara Samarasinghe	Dohitha B Yapa, Danuka Yasuranda Benthavithana, Nirod Rathnaweera and Thushari Wimalarathna (University of Moratuwa, Sri Lanka); Joseph Rohan Lucas (University of Moratuwa & General Sir John Kothalawela Defence University, Sri Lanka); Rasara Samarasinghe (University of Moratuwa, Sri Lanka)
1570657383	<a href="#">1570657383</a>	<a href="#">1570657383</a>	Localizing Hotspot in an Oil Immersed Distribution Transformer Using Finite Element Analysis	<a href="#">Power Quality and Reliability</a>	Gevindu Ediriweera; Kalpa Wickramasinghe; Irupe Sithmini; Anupa Ekanayaka; Rasara Samarasinghe; Joseph Rohan Lucas	Gevindu Ediriweera, Kalpa Wickramasinghe, Irupe Sithmini, Anupa Ekanayaka and Rasara Samarasinghe (University of Moratuwa, Sri Lanka); Joseph Rohan Lucas (University of Moratuwa & General Sir John Kothalawela Defence University, Sri Lanka)
1570657931	<a href="#">1570657931</a>	<a href="#">1570657931</a>	Nine-Level Packed U-Cell Converter for Electric Spring Applications	<a href="#">Power Quality and Reliability</a>	Amirabbas Kaymanesh; Rezkallah Miloud; Amrisha Chandra; Claude Ziad El-Bayeh	Amirabbas Kaymanesh (École de Technologie Supérieure, Canada); Rezkallah Miloud (ETS & Institut Technologique de Maintenance Industrielle (ITMI), Canada); Amrisha Chandra (Ecola de Technologie, Superieure, Canada); Claude Ziad El-Bayeh (Ecole de Technologie Superieure, Canada)
1570673000	<a href="#">1570673000</a>	<a href="#">1570673000</a>	Nonlinear Identification Approach for Black-Box Modeling of Voltage Source Converter Harmonic Characteristics	<a href="#">Power Quality and Reliability</a>	Ahmed S. Abdelsamad; Johanna Myrzik; Elias Kauffhold; Jan Meyer; Peter Schegner	Ahmed S. Abdelsamad (Bremen University, Germany); Johanna Myrzik (Technische Universität Dortmund, Germany); Elias Kauffhold and Jan Meyer (Technische Universität Dresden, Germany); Peter Schegner (TU Dresden, Germany)
1570674917	<a href="#">1570674917</a>	<a href="#">1570674917</a>	Degradation Simulation for Non-Destructive Conditions of Power System Equipment	<a href="#">Power Quality and Reliability</a>	Ming Dong; Alexandre B Nassif	Ming Dong (Alberta Electric System Operator, Canada); Alexandre B Nassif (ATCO Electric, Canada)
1570675471	<a href="#">1570675471</a>	<a href="#">1570675471</a>	Model Predictive Control with Active Damping Capability for Induction Machine Driver Based on Indirect Matrix Converter	<a href="#">Power Quality and Reliability</a>	Mustafa Gokdag; Ozan Gulbudak	Mustafa Gokdag and Ozan Gulbudak (Karabuk University, Turkey)
1570675500	<a href="#">1570675500</a>	<a href="#">1570675500</a>	Electric Power Load Forecasting Based on Multivariate LSTM Neural Network Using Bayesian Optimization	<a href="#">Power Quality and Reliability</a>	Mohammad Munem; T. M. Rubaith Bashir; Mehedi Roni; Munem Shahriar; Tasnim Shawkat; Md. Habibur Rahaman	Mohammad Munem and T. M. Rubaith Bashir (Rajshahi University of Engineering & Technology, Bangladesh); Mehedi Roni, Munem Shahriar and Tasnim Shawkat (Rajshahi University of Engineering and Technology, Bangladesh); Md. Habibur Rahaman (Memorial University of Newfoundland, Canada)
1570675601	<a href="#">1570675601</a>	<a href="#">1570675601</a>	Reliability Analysis of Large-Scale Electric Bus Depots Based on Different Failure Scenarios	<a href="#">Power Quality and Reliability</a>	Mina Eskander; Amra Jahic; Detlef Schulz	Mina Eskander, Amra Jahic and Detlef Schulz (Helmut Schmidt University, Germany)
1570684471	<a href="#">1570684471</a>	<a href="#">1570684471</a>	A Reactive Power Compensation Scheme Using Distribution STATCOMs to Manage Voltage in Rural Distribution Systems	<a href="#">Power Quality and Reliability</a>	Alexandre B Nassif; Dawit Teshome	Alexandre B Nassif and Dawit Teshome (ATCO Electric, Canada)
1570650629	<a href="#">1570650629</a>	<a href="#">1570650629</a>	How to Estimate Temperature Coefficients of Series and Shunt Parameters of Transmission Lines with Sag	<a href="#">Power System Protection and Wide Area Protection</a>	Ali R. Al-Roomi; Mohamed E. El-Hawary	Ali R. Al-Roomi and Mohamed E. El-Hawary (Dalhousie University, Canada)
1570650989	<a href="#">1570650989</a>	<a href="#">1570650989</a>	A Novel Approach to Precisely Calculate Lumped Parameters for Transmission Lines with Sag Using the M-Model Equivalent Circuit	<a href="#">Power System Protection and Wide Area Protection</a>	Ali R. Al-Roomi; Mohamed E. El-Hawary	Ali R. Al-Roomi and Mohamed E. El-Hawary (Dalhousie University, Canada)
1570654703	<a href="#">1570654703</a>	<a href="#">1570654703</a>	Optimal Coordination of Directional Overcurrent Relays Using BBO When Electromechanical, Static, Digital, and Numerical Relays All Exist	<a href="#">Power System Protection and Wide Area Protection</a>	Ali R. Al-Roomi; Mohamed E. El-Hawary	Ali R. Al-Roomi and Mohamed E. El-Hawary (Dalhousie University, Canada)
1570662576	<a href="#">1570662576</a>	<a href="#">1570662576</a>	Real-Time Monitoring Applications for the Power Grid Under Geomagnetic Disturbances	<a href="#">Power System Protection and Wide Area Protection</a>	Cecilia Klauber; Komal S Shetye; Jennifer Gannon; Michael Henderson; Zeyu Mao; Thomas J. Overbye	Cecilia Klauber and Komal S Shetye (Texas A&M University, USA); Jennifer Gannon and Michael Henderson (Computational Physics Inc, USA); Zeyu Mao and Thomas J. Overbye (Texas A&M University, USA)
1570673384	<a href="#">1570673384</a>	<a href="#">1570673384</a>	Political Optimization Algorithm for Optimal Coordination of Directional Overcurrent Relays	<a href="#">Power System Protection and Wide Area Protection</a>	Mohammed Abdelhamid; Salah Kamel; Mohamed A. Mohamed; Mansour AlJohani; Claudia Rahmann; Mohammed I. Mosaad	Mohammed Abdelhamid and Salah Kamel (Aswan University, Egypt); Mohamed A. Mohamed (Minia University, Egypt); Mansour AlJohani (YIC, Saudi Arabia); Claudia Rahmann (Universidad de Chile, Chile); Mohammed I. Mosaad (Yanbu Industrial College, Saudi Arabia)
1570673580	<a href="#">1570673580</a>	<a href="#">1570673580</a>	Review of Protection Strategies for Wind Turbines Against Lightning	<a href="#">Power System Protection and Wide Area Protection</a>	Choudhury Naser; Vijay K. Sood	Choudhury Naser and Vijay K. Sood (Ontario Tech University, Canada)
1570674657	<a href="#">1570674657</a>	<a href="#">1570674657</a>	Application of Circuit-Breaker Standards in Short-Circuit Current Calculation for Generator Circuit-Breaker	<a href="#">Power System Protection and Wide Area Protection</a>	Priyanka Gugale; Mirko Palazzo	Priyanka Gugale and Mirko Palazzo (Hitachi ABB Power Grids, Switzerland)
1570648560	<a href="#">1570648560</a>	<a href="#">1570648560</a>	Steady State Accuracy of Second-Order Generator Dynamic Models in Generator Parameter Validation Testing	<a href="#">Power System Stability and Control</a>	Quincy Wang; Song Wang	Quincy Wang (BC Hydro, Canada); Song Wang (PacifiCorp, USA)



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1570661748	<a href="#">1570661748</a>	<a href="#">1570661748</a>	Non-Synchronous Generation Impact on Frequency Response - A Case from Albania	<a href="#">Power System Stability and Control</a>	Harold Chamorro; Wilfredo Flores	Harold Chamorro (KU Leuven, Belgium); Wilfredo Flores (Technology University UNITEC, HONDURAS & UNITEC, Honduras)
1570662302	<a href="#">1570662302</a>	<a href="#">1570662302</a>	Exhaustive Modal Analysis of Interconnected European Power System	<a href="#">Power System Stability and Control</a>	Kouki Mohamed; Marinescu Bogdan; Xavier Florent	Kouki Mohamed and Marinescu Bogdan (Ecole Centrale de Nantes, France); Xavier Florent (RTE-R&D, France)
1570662840	<a href="#">1570662840</a>	<a href="#">1570662840</a>	An Active Damping Method for the Bipolar DC System Connected with Constant Power Loads	<a href="#">Power System Stability and Control</a>	Xiaoyao You; Heping Liu; Jianquan Liao; Yuansheng Huang	Xiaoyao You, Heping Liu, Jianquan Liao and Yuansheng Huang (Chongqing University, China)
1570664115	<a href="#">1570664115</a>	<a href="#">1570664115</a>	Robust Integral Sliding Mode Control of Non-Minimum Phase DC-DC Converters	<a href="#">Power System Stability and Control</a>	Youssef El Haj; Ahmed Sheir; Ruth Milman; Vijay K. Sood	Youssef El Haj (Ontario Tech University, Canada); Ahmed Sheir and Ruth Milman (UOIT, Canada); Vijay K. Sood (Ontario Tech University, Canada)
1570664514	<a href="#">1570664514</a>	<a href="#">1570664514</a>	Robust H $\infty$ Decentralized Control Design for HVDC Link Embedded in a Large-Scale AC Grid	<a href="#">Power System Stability and Control</a>	Hoang-Trung Ngo; Elkhatib Kamal; Marinescu Bogdan; Xavier Florent	Hoang-Trung Ngo (Ecole Centrale de Nantes, France); Elkhatib Kamal (Ecole Centrale de Nantes, LS2N-CNRS, France); Marinescu Bogdan (Ecole Centrale de Nantes, France); Xavier Florent (RTE-R&D, France)
1570673347	<a href="#">1570673347</a>	<a href="#">1570673347</a>	Robust Constrained Controller Design for HVDC Link Embedded in a Large-Scale AC Grid	<a href="#">Power System Stability and Control</a>	Elkhatib Kamal; Emile Thau; Marinescu Bogdan; Guillaume Denis	Elkhatib Kamal and Emile Thau (Ecole Centrale de Nantes, LS2N-CNRS, France); Marinescu Bogdan (Ecole Centrale de Nantes, France); Guillaume Denis (RTE R&D Division, France)
1570673361	<a href="#">1570673361</a>	<a href="#">1570673361</a>	Saturation of Current Transformer in a Coordinated Substation Towards Optimal Power Flow	<a href="#">Power System Stability and Control</a>	A B M Shafiu Azam	A B M Shafiu Azam (Lansing Board of Water and Light, USA)
1570674514	<a href="#">1570674514</a>	<a href="#">1570674514</a>	Inertial Response of Electrical Power Systems	<a href="#">Power System Stability and Control</a>	Berardino Porretta	Berardino Porretta (Ergosum Inc, Canada)
1570675223	<a href="#">1570675223</a>	<a href="#">1570675223</a>	Medium Range Resonant Inductive Wireless Power Transfer	<a href="#">Power System Stability and Control</a>	Shahbaz Tahir; Muhammad Azmat Ali Rathore	Shahbaz Tahir (Technical University Munich, Germany); Muhammad Azmat Ali Rathore (Altran, Germany)
1570675396	<a href="#">1570675396</a>	<a href="#">1570675396</a>	Stability Enhancement of High Frequency DC Distribution Network by Incorporating Wide Bandgap $\beta$ -Ga2O3 Power MOSFET as Switching Element	<a href="#">Power System Stability and Control</a>	Sudipta Mukherjee; Swaroop Ganguly	Sudipta Mukherjee (Indian Institute of Technology, Bombay, India); Swaroop Ganguly (IIT Bombay, India)
1570639705	<a href="#">1570639705</a>	<a href="#">1570639705</a>	Comparing Technical Criteria of Various Lithium-Ion Battery Cell Formats for Deriving Respective Market Potentials	<a href="#">Renewables and Distributed Energy Resources</a>	Johannes Full; Johannes Wanner; Steffen Kiemel; Robert Miehle; Max Weeber; Alexander Sauer	Johannes Full and Johannes Wanner (Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Germany); Steffen Kiemel (Fraunhofer IPA, Germany); Robert Miehle (Fraunhofer-Society, Germany); Max Weeber (Fraunhofer Institute for Manufacturing Engineering and Automation IPA, Germany); Alexander Sauer (Fraunhofer IPA, Germany)
1570650027	<a href="#">1570650027</a>	<a href="#">1570650027</a>	Evaluation of the Sustainability of Decentralised Energy Systems for Domestic Applications	<a href="#">Renewables and Distributed Energy Resources</a>	Franz Teske; Adrian Fehrl; Jörg Franke	Franz Teske and Adrian Fehrl (FAU Erlangen-Nürnberg, Germany); Jörg Franke (FAU Erlangen-Nuremberg, Germany)
1570650916	<a href="#">1570650916</a>	<a href="#">1570650916</a>	Evaluation of a Stochastic Vehicle Travel Pattern Generation Model with Real-World Travel Data	<a href="#">Renewables and Distributed Energy Resources</a>	Anand MP; Athula Rajapakse; Saman Muthukumarana; Bagen Bagen	Anand MP, Athula Rajapakse and Saman Muthukumarana (University of Manitoba, Canada); Bagen Bagen (Manitoba Hydro, Canada)
1570651240	<a href="#">1570651240</a>	<a href="#">1570651240</a>	Gaussian Mixture Model for Estimating Solar Irradiance Probability Density	<a href="#">Renewables and Distributed Energy Resources</a>	Maisam Wahbah; Tarek EL-Fouly; Bashar Zahawi	Maisam Wahbah (Khalifa University, United Arab Emirates); Tarek EL-Fouly (Khalifa University of Science and Technology, United Arab Emirates); Bashar Zahawi (Khalifa University, United Arab Emirates)
1570652463	<a href="#">1570652463</a>	<a href="#">1570652463</a>	Smart Meter Data to Optimize Roof-top Solar and Battery Size	<a href="#">Renewables and Distributed Energy Resources</a>	Emon Chatterji	Emon Chatterji (USA)
1570663499	<a href="#">1570663499</a>	<a href="#">1570663499</a>	Adaptive Capacity Determination for Critical Load in Power Systems	<a href="#">Renewables and Distributed Energy Resources</a>	Hanyue Li; Jessica L. Wert; Phylcia Cicilio	Hanyue Li and Jessica L. Wert (Texas A&M University, USA); Phylcia Cicilio (University of Alaska Fairbanks, USA)
1570664069	<a href="#">1570664069</a>	<a href="#">1570664069</a>	Optimal Allocation of Shunt Compensators in Distribution Systems Using Turbulent Flow of Water-Based Optimization Algorithm	<a href="#">Renewables and Distributed Energy Resources</a>	Ahmad Eid; Salah Kamel	Ahmad Eid (Aswan University & Faculty of Engineering, Egypt); Salah Kamel (Aswan University, Egypt)
1570665012	<a href="#">1570665012</a>	<a href="#">1570665012</a>	Wind Turbine Productivity and Wind Energy Assessment: An Ontario Case Study	<a href="#">Renewables and Distributed Energy Resources</a>	Omid Beik; Ahmad S. Al-Adsani	Omid Beik (McMaster University, Canada); Ahmad S. Al-Adsani (Public Authority for Applied Education and Training, Kuwait)
1570665023	<a href="#">1570665023</a>	<a href="#">1570665023</a>	Proposed Wind Turbine Limited- and High-Speed Operation	<a href="#">Renewables and Distributed Energy Resources</a>	Omid Beik; Ahmad S. Al-Adsani	Omid Beik (McMaster University, Canada); Ahmad S. Al-Adsani (Public Authority for Applied Education and Training, Kuwait)
1570671552	<a href="#">1570671552</a>	<a href="#">1570671552</a>	Optimal Value-Based Prices Placement of DER and V2G Using Planet Search Algorithm	<a href="#">Renewables and Distributed Energy Resources</a>	Harold Chamorro; Vijay K. Sood	Harold Chamorro (KU Leuven, Belgium); Vijay K. Sood (Ontario Tech University, Canada)
1570671621	<a href="#">1570671621</a>	<a href="#">1570671621</a>	Optimal Sizing of a Hybrid Power System for Driving a Passenger Boat in Bangladesh	<a href="#">Renewables and Distributed Energy Resources</a>	Mohammad Abu Abdullah Al Mehedi; Mohammad Tariq Iqbal	Mohammad Abu Abdullah Al Mehedi and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)
1570672474	<a href="#">1570672474</a>	<a href="#">1570672474</a>	Investigation of Effects of Increasing EV Penetration on Distribution Transformers in Modi Ganpati Area, Pune	<a href="#">Renewables and Distributed Energy Resources</a>	Sunil Gaikwad; Hrishikesh Mehta	Sunil Gaikwad (P. V. G. C. O. E. T., University of Pune, India); Hrishikesh Mehta (Savitribai Phule Pune University & Aetheric Innovative Solutions, India)
1570673303	<a href="#">1570673303</a>	<a href="#">1570673303</a>	Comparison of Halbach, Radial and Axial Magnet Arrangement for Single Phase Tubular Permanent Magnet Linear Alternators	<a href="#">Renewables and Distributed Energy Resources</a>	Jayaram Subramanian; Parviz Fomouri; Fereshteh Mahmudzadeh; Mehar Bade	Jayaram Subramanian, Parviz Fomouri and Fereshteh Mahmudzadeh (West Virginia University, USA); Mehar Bade (Enginuity Power Systems, USA)
1570673703	<a href="#">1570673703</a>	<a href="#">1570673703</a>	Design and Analysis of a Stand-Alone DC Hybrid Microgrid for a Rural Base Transceiver Station in Nigeria	<a href="#">Renewables and Distributed Energy Resources</a>	Cyprian Oton; Mohammad Tariq Iqbal	Cyprian Oton and Mohammad Tariq Iqbal (Memorial University of Newfoundland, Canada)

Paper #	Vimeo link	EDAS link	Paper Title	Technical Track	Authors	Authors Affiliations
1570673999	<a href="#">1570673999</a>	<a href="#">1570673999</a>	Optimal Design of a Grid-Connected Hybrid Photovoltaic/Wind/Fuel Cell System	<a href="#">Renewables and Distributed Energy Resources</a>	Hamdy M. Sultan; Ahmed S. Menesy; Salah Kamel; Ali S Alghamdi; Claudia Rahmann	Hamdy M. Sultan and Ahmed S. Menesy (Minia University, Egypt); Salah Kamel (Aswan University, Egypt); Ali S Alghamdi (Majmaah University, Saudi Arabia); Claudia Rahmann (Universidad de Chile, Chile)
1570674385	<a href="#">1570674385</a>	<a href="#">1570674385</a>	Combining Volt/Var & Volt/Watt Modes to Increase PV Hosting Capacity in LV Distribution Networks	<a href="#">Renewables and Distributed Energy Resources</a>	Muhammad Rashid; Andrew M Knight	Muhammad Rashid and Andrew M Knight (University of Calgary, Canada)
1570675187	<a href="#">1570675187</a>	<a href="#">1570675187</a>	Bayesian Optimization Based ANN Model for Short Term Wind Speed Forecasting in Newfoundland, Canada	<a href="#">Renewables and Distributed Energy Resources</a>	Md. Habibur Rahaman; T. M. Rubaith Bashar; Mohammad Munem; Md. Hasibul Hasan Hasib; Hasan Mahmud; Arifin Nur Alif	Md. Habibur Rahaman (Memorial University of Newfoundland, Canada); T. M. Rubaith Bashar, Mohammad Munem and Md. Hasibul Hasan Hasib (Rajshahi University of Engineering & Technology, Bangladesh); Hasan Mahmud (University of Dhaka, Bangladesh); Arifin Nur Alif (Bangladesh University of Engineering & Technology, Bangladesh)
1570675422	<a href="#">1570675422</a>	<a href="#">1570675422</a>	Adaptive Q(U) Control Using Combined Genetic Algorithm and Artificial Neural Network	<a href="#">Renewables and Distributed Energy Resources</a>	Desmond Okwabi Ampofo; Ahmed S. Abdelsamad; Johanna Myrzik; Marilyn Asmah	Desmond Okwabi Ampofo (University of Bremen, Germany); Ahmed S. Abdelsamad (Bremen University, Germany); Johanna Myrzik (University of Bremen, Germany); Marilyn Asmah (TU Dortmund, Germany)
1570675454	<a href="#">1570675454</a>	<a href="#">1570675454</a>	Frequency Control for a High Penetration Wind-Based Energy Storage System in the Power Network	<a href="#">Renewables and Distributed Energy Resources</a>	Md Jahidur Rahman; Tafticht Tahar; Mamadou Lamine Doumbia	Md Jahidur Rahman and Tafticht Tahar (University of Québec in Abitibi-Témiscamingue (UQAT), Canada); Mamadou Lamine Doumbia (Universite du Quebec à Trois-Rivieres, Canada)
1570675557	<a href="#">1570675557</a>	<a href="#">1570675557</a>	Energy-Storage Fed Smart Inverters for Mitigation of Voltage Fluctuations in Islanded Microgrids	<a href="#">Renewables and Distributed Energy Resources</a>	Mohsen S. Pilehvar; Behrooz Mirafzal	Mohsen S. Pilehvar and Behrooz Mirafzal (Kansas State University, USA)
1570675620	<a href="#">1570675620</a>	<a href="#">1570675620</a>	Review of Studies and Operational Experiences of PV Hosting Capacity Improvement by Smart Inverters	<a href="#">Renewables and Distributed Energy Resources</a>	Rajiv K. Varma; Vatandeep Singh	Rajiv K. Varma (University of Western Ontario, Canada); Vatandeep Singh (The University of Western Ontario, Canada)
1570675626	<a href="#">1570675626</a>	<a href="#">1570675626</a>	Hybrid Fuzzy Control for Mitigating the Partial Shading Effects in a Seven-Level Grid Connected Photovoltaic Inverter	<a href="#">Renewables and Distributed Energy Resources</a>	Mateus Batista Pinto; Ruben Barros Godoy; Moacyr Aureliano de Brito; Tiago Henrique Mateus	Mateus Batista Pinto (Federal University of Mato Grosso do Sul, Brazil); Ruben Barros Godoy (Federal University of Mato Grosso do Sul); Moacyr Aureliano de Brito and Tiago Henrique Mateus (Federal University of Mato Grosso do Sul, Brazil)
1570678767	<a href="#">1570678767</a>	<a href="#">1570678767</a>	Electrochemical Optimization Model for Parameters Identification of PEM Electrolyzer	<a href="#">Renewables and Distributed Energy Resources</a>	Abdulrahman Mohamed Abomazid; Nader El-Taweel; Hany Farag	Abdulrahman Mohamed Abomazid, Nader El-Taweel and Hany Farag (York University, Canada)
1570656853	<a href="#">1570656853</a>	<a href="#">1570656853</a>	Instability Prediction in Smart Cyber-Physical Grids Using Feedforward Neural Networks	<a href="#">Smart Grids</a>	Amir Jafari; Farzad Darbandi; Hadis Karimpour	Amir Jafari (University of Tabriz, Iran); Farzad Darbandi (University of Tabriz, Canada); Hadis Karimpour (University of Guelph, Canada)
1570672832	<a href="#">1570672832</a>	<a href="#">1570672832</a>	Multi-Core Platform of Admittance Matrix Formation of Power Systems: Computational Time Assessment	<a href="#">Smart Grids</a>	Harold Chamorro; Vijay K. Sood	Harold Chamorro (KU Leuven, Belgium); Vijay K. Sood (Ontario Tech University, Canada)
1570674371	<a href="#">1570674371</a>	<a href="#">1570674371</a>	Performance Evaluation of GMR and TMR Sensors to Estimate Current Phasors in Smart Grids	<a href="#">Smart Grids</a>	Prasad Shrawane; Tarlochan Sidhu	Prasad Shrawane and Tarlochan Sidhu (University of Ontario Institute of Technology, Canada)
1570675386	<a href="#">1570675386</a>	<a href="#">1570675386</a>	Demand Side Management Using Model-Free Fuzzy Controller in a Direct Load Control Program	<a href="#">Smart Grids</a>	Pegah Yazdkhasti; Chris Diduch	Pegah Yazdkhasti and Chris Diduch (University of New Brunswick, Canada)
1570675612	<a href="#">1570675612</a>	<a href="#">1570675612</a>	Self-Secure Inverters Against Malicious Setpoints	<a href="#">Smart Grids</a>	Tareq Hossen; Fahmid Sadeque; Behrooz Mirafzal	Tareq Hossen, Fahmid Sadeque and Behrooz Mirafzal (Kansas State University, USA)
1570648886	<a href="#">1570648886</a>	<a href="#">1570648886</a>	Impacts of Frequency Containment Reserve on the Optimal Coordinated Hydropower Scheduling in Three-Settlement Markets	<a href="#">Transactive Energy and Electricity Markets</a>	Abolfazl Khodadadi; Lennart Söder	Abolfazl Khodadadi (KTH Royal Institute of Technology, Sweden); Lennart Söder (Royal Institute of Technology, Sweden)
1570651471	<a href="#">1570651471</a>	<a href="#">1570651471</a>	Distributed Ledger Technologies for Peer-To-Peer Energy Trading	<a href="#">Transactive Energy and Electricity Markets</a>	Olamide Jogunola; Mohammad Hammoudeh; Kelvin Anoh; Bamidele Adebisi	Olamide Jogunola and Mohammad Hammoudeh (Manchester Metropolitan University, United Kingdom (Great Britain)); Kelvin Anoh (University of Bolton, United Kingdom (Great Britain)); Bamidele Adebisi (Manchester Metropolitan University, United Kingdom (Great Britain))
1570651824	<a href="#">1570651824</a>	<a href="#">1570651824</a>	Key Performance Indicator Based Design Guidelines for Local Electricity Markets	<a href="#">Transactive Energy and Electricity Markets</a>	Mukund Wadhwa; Godwin Chidiebube Okwuibe; Thomas Brenner; Peter Tzscheuschler; Thomas Hamacher	Mukund Wadhwa (Albert-Ludwigs-Universität Freiburg & Oli Systems GmbH, Stuttgart, Germany); Godwin Chidiebube Okwuibe (Oli Systems GmbH, Stuttgart & Chair of Renewable and Sustainable Energy Systems, Technical University of Munich, Germany); Thomas Brenner (Oli Systems GmbH, Stuttgart, Germany); Peter Tzscheuschler (Technical University of Munich, Germany); Thomas Hamacher (Technische Universität München, Germany)
1570652320	<a href="#">1570652320</a>	<a href="#">1570652320</a>	A Blockchain-Based Double-Sided Auction Peer-To-Peer Electricity Market Framework	<a href="#">Transactive Energy and Electricity Markets</a>	Godwin Chidiebube Okwuibe; Michel Zade; Peter Tzscheuschler; Thomas Hamacher; Ulrich Wagner	Godwin Chidiebube Okwuibe (Oli Systems GmbH, Stuttgart & Chair of Renewable and Sustainable Energy Systems, Technical University of Munich, Germany); Michel Zade and Peter Tzscheuschler (Technical University of Munich, Germany); Thomas Hamacher (Technische Universität München, Germany); Ulrich Wagner (Chair of Energy Economy and Application Technology, Germany)

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1570655767	<a href="#">1570655767</a>	<a href="#">1570655767</a>	Intelligent Bidding Strategies in Local Electricity Markets: A Simulation-Based Analysis	<a href="#">Transactive Energy and Electricity Markets</a>	Godwin Chidiebube Okwuibe; Mukund Wadhwa; Thomas Brenner; Peter Tzscheutschler; Thomas Hamacher	Godwin Chidiebube Okwuibe (Oli Systems GmbH, Stuttgart & Chair of Renewable and Sustainable Energy Systems, Technical University of Munich, Germany); Mukund Wadhwa (Albert-Ludwigs-Universität Freiburg & Oli Systems GmbH, Stuttgart, Germany); Thomas Brenner (Oli Systems GmbH, Stuttgart, Germany); Peter Tzscheutschler (Technical University of Munich, Germany); Thomas Hamacher (Technische Universität München, Germany)
1570675306	<a href="#">1570675306</a>	<a href="#">1570675306</a>	Investigating the Flexibilization of Hydraulic Storage Power Plants in the Nordics	<a href="#">Transactive Energy and Electricity Markets</a>	Marius Siemonsmeier; Peter Wirtz; Maik Schönfeld	Marius Siemonsmeier, Peter Wirtz and Maik Schönfeld (RWTH Aachen University, Germany)
1570679696	<a href="#">1570679696</a>	<a href="#">1570679696</a>	Implications of Microgrids, Economic Autonomy and Renewable Energy Systems for Remote Indigenous Communities	<a href="#">Humanitarian Technology</a>	Alyssa Schatz; Petr Musilek	Alyssa Schatz and Petr Musilek (University of Alberta, Canada)
1570680041	<a href="#">1570680041</a>	<a href="#">1570680041</a>	A Novel Smart Gas Stove with Gas Leakage Detection and Multistage Prevention System Using IoT LoRa Technology	<a href="#">Humanitarian Technology</a>	Md. Rakibul Islam; Abdul Matin; Md. Saifullah Siddiquee; Fahim Md. Sifnatul Hasnain; Md. Habibur Rahaman; Tonmoy Hasan	Md. Rakibul Islam (Rajshahi University of Engineering and Technology); Abdul Matin, Md. Saifullah Siddiquee and Fahim Md. Sifnatul Hasnain (Rajshahi University of Engineering and Technology, Bangladesh); Md. Habibur Rahaman (Memorial University of Newfoundland, Canada); Tonmoy Hasan (Rajshahi University of Engineering & Technology (RUET), Bangladesh)
1570681049	<a href="#">1570681049</a>	<a href="#">1570681049</a>	Dual Use Solar Surfaces for Local Grids and Net Zero Development	<a href="#">Humanitarian Technology</a>	Andrew Csinger; Douglas Matthews	Andrew Csinger (Taktikai Consulting Corp., Canada); Douglas Matthews (Solar Earth Technologies, Canada)
1570681152	<a href="#">1570681152</a>	<a href="#">1570681152</a>	Novel Six-Phase DFIG Suitable for Three-Phase and Six-Phase Grid-Connected Disperse Generation	<a href="#">Humanitarian Technology</a>	Neeraj Kumar Mishra; Zakir Husain; Arvind Mukhraiya	Neeraj Kumar Mishra (NIT Hamirpur, India); Zakir Husain (National Institute of Technology Hamirpur, India); Arvind Mukhraiya (India)
1570681223	<a href="#">1570681223</a>	<a href="#">1570681223</a>	Cyber-Attacks Against Voltage Profile in Smart Distribution Grids with Highly-Dispersed PV Generators: Detection and Protection	<a href="#">Humanitarian Technology</a>	Nour Ghalib Abuaysheh; Tamer Khattab; Ahmed Massoud	Nour Ghalib Abuaysheh (Doha, Qatar); Tamer Khattab and Ahmed Massoud (Qatar University, Qatar)
1570681710	<a href="#">1570681710</a>	<a href="#">1570681710</a>	The Profitability and Affordability of Smart Renewable Microgrid in Sub-Saharan Africa	<a href="#">Humanitarian Technology</a>	Hendrika Kuffar	Hendrika Kuffar (RIKACHI, Canada)