TABLE OF CONTENTS

Scroll to the title and select a Blue link to open a paper. After viewing the paper, use the bookmarks to the left to return to the beginning of the Table of Contents.

Monday, October 2

Session 1: Power Conversion for Solar Photovoltaic Systems I
Chair(s): Ranjit Mahanty, Yongheng Yang

Session 2: Hybrid AC/DC Microgrids
Chair(s): Jinjun Liu, Meiqin Mao

Session 3: Dynamic Performance of Power Converters for Renewable Energy
Chair(s): Hui Li, Adel Nasiri

Session 4: Applications of MMC
Chair(s): Maryam Saeedifard, Vito Giuseppe Monopoli

Session 5: Inductive Power Transfer for EV Charging
Chair(s): Suman Debnath, Daniel Ludois

Session 6: Single-Phase DC/AC Converters I
Chair(s): Adam Skorek, Feng Gao

Session 7: Multi-Phase DC/AC Converters I
Chair(s): David Diaz Reigosa, Marcello Pucci

Session 8: DC/DC Converters I
Chair(s): Philip Krein, Santanu Mishra

Session 9: Modeling and Control of Resonant Converters
Chair(s): Gerry Moschopoulos, Rivas-davila Juan

Session 10: Modeling and Control of Power Factor Correction Converters
Chair(s): Aleksandar Prodic, Huai Wang

Session 11: Induction Machines I
Chair(s): Andrea Cavagnino, Renato Lyra

Session 12: Axial Flux Machines
Chair(s): Akira Chiba, Giulio De Donato

Session 13: Control of Electric Drives I
Chair(s): Roberto Petrella, Hinkkanen Marko

Session 14: Diagnostics and Fault Tolerant Systems in Drives
Chair(s): Giacomo Scelba, Antonio J. Marques Cardoso

Session 15: GaN Switching Performance
Chair(s): Enrico Santi, Muhammad Nawaz

Session 16: Magnetics I
Chair(s): David Perreault, Ruxi Wang

Session 17: Power Conversion for Solar Photovoltaic Systems II
Chair(s): Pedro Rodriguez, Lixiang Wei

Session 18: Power Converter Topologies for Renewable Energy
Chair(s): Mohammad B. Shadmand, Tiefu Zhao

Session 19: Renewable Impacts in Industrial Microgrids
Chair(s): Marco Liserre, Giovanna Oriti

Session 20: Control Aspects of Electified Vehicles
Chair(s): Jin Ye, Ian Brown

Session 21: Multi-Phase DC/AC Converters II
Chair(s): Parag Kshirsagar, Grahame Holmes

Session 22: Single-Phase DC/AC Converters II
Chair(s): Madhav Manjrekar, Vladimir Blasko

Session 23: Power Quality Control
Chair(s): Zheng Wang, Tsorng-Juu Liang

Session 24: Modeling and Control of Multilevel Converters
Chair(s): Yongdong Li, Vito Giuseppe Monopoli

Session 25: Switched Reluctance Machines
Chair(s): Davide Barater, Iqbal Husain

Session 26: Induction Machines II
Chair(s): Renato Lyra, Nicola Bianchi

Session 27: Medium Voltage Drives and High Power Drives
Chair(s): Navid Zargari, Shih-Chin Yang

Session 28: Sensorless Drives I
Chair(s): Fernando Briz, Abraham Gebregergis

Session 29: Magnetics II
Chair(s): Shashank Krishnamurthy, Shuo Wang

Session 30: SiC Converter Applications
Chair(s): Jean-Luc Schanen, Yuxiang Shi

Session 31: Wireless Power Transfer I
Chair(s): Huang-jen Chiu, Yaow-Ming Chen

Session 32: Energy Storage Systems
Chair(s): Rashmi Prasad, Dazhong Gu

Session 33: AC/AC Converters
Chair(s): Yam Siwakoti, Luca Zarri

Session 34: Reliability, Diagnostics and Fault Analysis of Power Electronics
Chair(s): Wei Qiao, Huai Wang

Session 35: AC Electrical Machines: Innovative Design Studies
Chair(s): Phillip Kollmeyer, Zi-Qiang Zhu

Session 36: Axial and Transversal Flux Machines
Chair(s): Akira Chiba, Ayman El-Refaie

Session 37: Utility Converters and Power Electronics Transformers
Chair(s): Fred Wang, Jinwei He

Session 38: Motor Drives I
Chair(s): Fabio Giulii Capponi, Radu Bojoi

Session 39: Switching Devices I
Chair(s): Tanya Gachovska, Jun Wang

Session 40: Electric Vehicle Energy Management
Chair(s): Kevin Bai, Anand Sathyan

Session 41: Sensing and Control for Power Converters
Chair(s): Tsai-Fu Wu, Amir Yaznadi

Session 42: Modelling and Control of MMC
Chair(s): Yongdong Li, Tzung-Lin Lee

Session 43: Control in Microgrids
Chair(s): Xiaonan Lu, Thomas Podlesak

Tuesday, October 3

Session 44: Harmonic Compensation Techniques for Microgrids
Chair(s): Dehong Mark Xu, Frede Blaabjerg

Session 45: Power Converters for HVDC Grids
Chair(s): Dianguo Xu, Brandon Grainger

Session 46: Solid State Transformers
Chair(s): Alex Huang, Rolando Burgos

Session 47: Power Conversion for Solar Photovoltaic Systems III
Chair(s): Wuhua Li, Rajeev Kumar Singh

Session 48: Multi-Phase AC/DC Converters
Chair(s): Fernando Briz, Norma Anglani

Session 49: DC/DC Converters II
Chair(s): Dushan Borojevic, Grant Pitel

Session 50: Single-Phase Grid Connected Converters
Chair(s): Diego G. Lamar, Andrea Formentini

Session 51: Sensorless Methods and State and Parameter Estimation
Chair(s): Yongsug Su, Maurizio Cirrincione

Session 52: Modeling and Control of Modular Multilevel Converter
Chair(s): Hirofumi Akagi, Navid Zargari

Session 53: Large Synchronous Machines
Chair(s): Ayman El-Refaie, Mohammad Islam

Session 54: Synchronous Reluctance Machines I
Chair(s): Robert D. Lorenz, Dan Ionel

Session 55: Sensorless Drives II
Chair(s): Fabio Giulii Capponi, David Diaz Reigosa

Session 56: PM and IPM Motor Drives I
Chair(s): Ramakrishnan Rajavenkitasubramony, Davide Barater

Session 57: GaN Device and Gate Drive
Chair(s): Daniel Costinett, Chenhao Nan

Session 58: Wide Band Gap Device Reliability
Chair(s): Jerry Hudgins, Tanya Gachovska

Session 59: Datacenters and Telecommunication Applications
Chair(s): Xinke Wu, Al-Thaddeus Avestruz

Session 60: Applications of Electric Traction and Propulsion
Chair(s): Bulent Sarlioglu, Suman Debnath

Session 61: Multilevel Converters
Chair(s): Sheldon Williamson, Pericle Zanchetta

Session 62: DC/AC Converters
Chair(s): Sewan Choi, Carl Ho

Session 63: DC/DC Converters
Chair(s): Wilson Eberle, Sudip Mazumder

Session 64: PV Applications
Chair(s): Sonny Xue, Qin Lei

Session 65: EMI in Power Converters
Chair(s): Khurram Afridi, Yaow-Ming Chen

Session 66: Advances in Special Electrical Machines
Chair(s): Greg Heins, Dan Ionel

Session 67: Induction and Permanent Magnet AC Machines
Chair(s): Dong Jiang, Kyo-Beum Lee

Session 68: Motor Drives II
Chair(s): Giovanna Oriti, Ziaur Rahman

Session 69: Switching Devices II
Chair(s): Ruxi Wang, Xiaoqing Song

Session 70: Wireless Power Transfer
Chair(s): Mark J Scott, Jin Wang

Session 71: DC and Hydrid AC/DC Systems
Chair(s): Meiqin Mao, Adel Nasiri

Session 72: Applications of MMC
Chair(s): Dianguo Xu, Maryam Saeedifard

Session 73: Batteries and Wireless EV Charging
Chair(s): Veda Prakash Galigekere, Jin Ye

Session 74: AC/DC Converters
Chair(s): Wuhua Li, Praveen Jain

Session 75: Modeling and Control of Multilevel Converters
Chair(s): S. Ali Khajehoddin, Rostan Rodrigues

Session 76: Modeling and Control of Grid Connected Converters
Chair(s): Jiacheng Wang, Kyo-Beum Lee

Session 77: Power Quality
Chair(s): Xiaoqiang Guo, Feng Gao

Session 78: Stability of Converter Systems
Chair(s): Jian Sun, Xiongfei Wang

Session 79: Other Topics in Control, Modeling and Optimization of Power Converters
Chair(s): Luca Solero, Grant Pitel

Session 80: Analysis Techniques in Electrical Machines
Chair(s): Peter Wung, Wei Xu

Session 81: AC Electrical Machines: Performance Estimation
Chair(s): Avoki Omekanda, Ronghai Qu

Session 82: Component Technologies
Chair(s): Ben Guo, Tsorng-Juu Liang

Session 83: Renewable Energy and Grid Integration
Chair(s): Dehong Mark Xu, Yilmaz Sozer

Wednesday, October 4

Session 84: Wind Energy Systems
Chair(s): Dinesh Kumar, Wei Qiao

Session 85: Droop Control in Microgrids
Chair(s): Sara Ahmed, Amir Yaznadi

Session 86: Grid Connected Converter Stability
Chair(s): Johan HR Enslin, Suryanarayana Doolla

Session 87: Control and Modulation of Multi-Phase AC/DC Converters
Chair(s): Adam Skorek, Dong Cao

Session 88: DC/DC Converter Topologies
Chair(s): Regan Zane, Wilson Eberle

Session 89: AC-AC Converters I
Chair(s): Junichi Itoh, Lee Empringham

Session 90: Reliability, Diagnostic, and Faults Analysis in Power Converters I
Chair(s): Ke Ma, Marco Liserre

Session 91: Design Optimization of Power Converters
Chair(s): Fred Wang, Arijit Banerjee

Session 92: Thermal and Faults of Electric Machines
Chair(s): Yilmaz Sozer, Sang Bin Lee

Session 93: PM Machines and Windings
Chair(s): Abraham Gebregergis, Greg Heins

Session 94: Energy Efficient Motor Drives
Chair(s): Sayeed Mir, Gui-Jia Su

Session 95: Induction Motor Drives
Chair(s): Marcello Pucci, Jingbo Liu

Session 96: Packaging I
Chair(s): Jelena Popovic, Zhuxian Xu

Session 97: LED Drivers
Chair(s): S. Ali Khajehoddin, Marcos Alonso

Session 98: Wind Energy Applications
Chair(s): Nathan Weise, Eduard Muljadi

Session 99: Power Sharing Techniques in Microgrids
Chair(s): Koji Orikawa, Josep M. Guerrero

Session 100: DC Circuit Breaker Design
Chair(s): Ty McNutt, Rob Cuzner

Session 101: LLC Converters
Chair(s): Regan Zane, Rivas-davila Juan

Session 102: AC-AC Converters II
Chair(s): Patrick Wheeler, Luca Zarri

Session 103: Reliability, Diagnostic, and Faults Analysis in Power Converters II
Chair(s): Yilmaz Sozer, Mario Pacas

Session 104: Modulation Techniques I
Chair(s): Babak Parkhideh, Minjie Chen

Session 105: Modeling and Control of Grid Connected Converters I
Chair(s): Paolo Mattavelli, Carl Ho

Session 106: Synchronous Reluctance Machines II
Chair(s): Ziaur Rahman, David Dorrell

Session 107: Variable Flux PM Machines
Chair(s): Sang Bin Lee, Zi-Qiang Zhu

Session 108: PM and IPM Motor Drives II
Chair(s): Ali Bazzi, Prerit Pramod

Session 109: Packaging II
Chair(s): Zhuxian Xu, Muhammad Nawaz

Session 110: Wireless Power Transfer II
Chair(s): ChunTaek Rim, Shuo Wang

Session 111: PV Plants and PV Farms
Chair(s): Rajapandian Ayyanar, Fei Gao

Session 112: Droop Techniques for Microgrid Operation
Chair(s): Rolando Burgos, Hui Li

Session 113: Control in DC Microgrids
Chair(s): Tomislav Dragicevic, Xiaonan Lu

Session 114: Resonant DC/DC Converters
Chair(s): Hongliang Wang, Aleksandar Prodic

Session 115: Modular Multilevel Converters (MMC)
Chair(s): Luca Solero, Rostan Rodrigues

Session 116: Reliability, Diagnostic, and Faults Analysis for Power Devices
Chair(s): Behrooz Mirafzal, Jun Wang

Session 117: Modulation Techniques II
Chair(s): Jason Lai, Martin Ordonez

Session 118: Modeling and Control of Grid Connected Converters II
Chair(s): Jian Sun, Mahshid Amirabadi

Session 119: Linear Machines
Chair(s): Siavash Pakdelian, David Diaz Reigosa

Session 120: PM Motor Design, Control and Testing
Chair(s): Junichi Asama, Andrea Cavagnino

Session 121: Drive Applications
Chair(s): Mazharul Chowdhury, Annette Muetze

Session 122: High Voltage Devices
Chair(s): Daniel Costinett, Ruxi Wang

Session 123: Wireless Power Transfer III
Chair(s): Xu She, Alireza Safaee

Session 124: Solar Photovoltaic Technologies
Chair(s): Afshin Izadian, Yongheng Yang

Session 125: Control and Design Techniques for Microgrids I
Chair(s): Josep M. Guerrero, Mohammad B.Shadmand

Session 126: Datacenters and Telecommunication Applications
Chair(s): Al-Thaddeus Avestruz, Ashish Kumar

Session 127: Power Electronics in Electified Vehicles
Chair(s): Matthias Preindl, Gui-Jia Su

Session 128: DAB DC/DC Converters
Chair(s): Alessandro Costabeber, Madhav Manjrekar

Session 129: MMC Modulation and Control
Chair(s): Pericle Zanchetta, Jean-Luc Schanen

Session 130: Control of Grid Connected Converter
Chair(s): Joseph Olorunfemi Ojo, Xiongfei Wang

Session 131: Modeling and Control of AC-DC Converters
Chair(s): Frede Blaabjerg, Marco Dalla Costa

Session 132: Model Predictive Control of Power Converters I
Chair(s): Ralph Kennel, Tobias Geyer

Session 133: Thermal Model of Electric Machines
Chair(s): Davide Barater, Rashmi Prasad

Session 134: PM Machines, Demagnetization, Eccentricity and Losses
Chair(s): Gianmario Pellegrino, Bulent Sarliglu

Session 135: Control of Electric Drives II
Chair(s): Michael Harke, Alireza Fatemi

Session 136: Emerging Applications
Chair(s): Jin Wang, Mark J Scott

Thursday, October 5

Session 137: Other Topics in Renewable Energy Applications
Chair(s): Fei Gao, John Lam

Session 138: Power Quality of Grid Connected Converters I
Chair(s): Brandon Grainger, Stefano Bifaretti

Session 139: Control and Design Techniques for Microgrids II
Chair(s): Ron Hui, Tsai-Fu Wu

Session 140: Wireless Charging for EV
Chair(s): ChunTaek Rim, Dong Dong

Session 141: Multilevel Converters Applications
Chair(s): Sheldon Williamson, Liliana De Lillo

Session 142: MMC New Topologies
Chair(s): Andrea Formentini, Marcello Pucci

Session 143: Modeling and Control of DC-DC Converters I
Chair(s): Praveen Jain, Petros Karamanakos

Session 144: Model Predictive Control of Power Converters II
Chair(s): Jian Guo Zhu, Jose Rodriguez

Session 145: Stability in Power Converters
Chair(s): Yam Siwakoti, Jiangchao Qin

Session 146: High Torque Machines
Chair(s): Hamid A. Toliyat, Wei Xu

Session 147: Small PM Motors
Chair(s): Akira Chiba, Rajib Mikail

Session 148: Electric Drives for Wind and Other Renewable Integration
Chair(s): Jiangbiao He, Yue Zhao

Session 149: SiC Switching I
Chair(s): Francesco Iannuzzo, Shashank Krishnamurthy

Session 150: New Device, Circuit and Control Strategies
Chair(s): Xiu Yao, Lihua Chen

Session 151: Energy Storage Systems
Chair(s): Jae-Do Park, Bilal Akin

Session 152: Power Conversion Systems for AC and DC Grids
Chair(s): Yazan Alsmadi, Srdjan Lukic

Session 153: Power Quality of Grid Connected Converters II
Chair(s): Liuchen Chang, Jonathan Kimball

Session 154: Modeling and Monitoring of Batteries I
Chair(s): Veda Prakash Galigekere, Fei Gao

Session 155: Multilevel Converters I
Chair(s): Pericle Zanchetta, Luca Solero

Session 156: PFC Converters
Chair(s): Gerry Moschopoulos, Giacomo Scelba

Session 157: Modeling and Control of DC-DC Converters II
Chair(s): Xinbo Ruan, Khurram Afridi

Session 158: Modeling and Control of DC-AC Converters I
Chair(s): Luca Zarri, Yi Tang

Session 159: EMI in Power Converters
Chair(s): Jason Lai, Lixiang Wei

Session 160: High Speed Machines
Chair(s): Jonathan Bird, Ronghai Qu

Session 161: Noise, Vibration, Short Circuit of Electric Machines
Chair(s): Konstantinos Gyftakis, Rashmi Prasad

Session 162: Electric Drives for Aerospace and Traction Applications
Chair(s): John Neely, Long Wu

Session 163: SiC Switching II
Chair(s): Keiji Wada, Ben Guo

Session 164: Wireless Power Transfer IV
Chair(s): Huang-jen Chiu, Luis Herrera

Session 165: Hybrid Energy Systems
Chair(s): Jiacheng Wang, Jorge Garciav Garcia

Session 166: Wave Energy System
Chair(s): Martin Ordonez, Mazharul Chowdhury

Session 167: Grid Connected Inverters and LCL Filter Design
Chair(s): Edison da Silva, Mahshid Amirabadi

Session 168: Modeling and Monitoring of Batteries II
Chair(s): Phillip Kollmeyer, Mohammad Anwar

Session 169: Single-Phase AC/DC Converters
Chair(s): Hongliang Wang, Petar Grbovic

Session 170: Multilevel Converters II
Chair(s): Alessandro Costabeber, Yi Tang

Session 171: Isolated DC/DC Converters
Chair(s): Luca Tarisciotti, Alireza Safaee

Session 172: Grid Synchronization Techniques
Chair(s): Zheng Wang, Alireza Bakhshai

Session 173: Modeling and Control of DC-AC Converters II
Chair(s): Leon M Tolbert, Dong Dong

Session 174: Testing, Measurement, and Validation of Power Converters
Chair(s): Vladimir Blasko, Qin Lei

Session 175: Motors for Transportation
Chair(s): Ronghai Qu, Khwaja Rahman

Session 176: General Topics in Electrical Machines
Chair(s): Jose Antonino-Daviu, Dong Jiang

Session 177: PM and IPM Motor Drives III
Chair(s): Bilal Akin, Annette Muetze

Session 178: Device Self Sensing Techniques
Chair(s): Adam Skorek, Jing Xu