Special Feature

Recognition of 2019 TRANSACTIONS and *Magazine* Paper Reviewers

Thomas A. Nondahl, *Fellow, IEEE*
Editor-in-Chief, IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS

In 2019, the IEEE Industry Applications Society (IAS) received over 2500 original and revised manuscripts for possible publication in these TRANSACTIONS and in the *IEEE Industry Applications Magazine*. The publication decision for each manuscript required recommendations from at least three individuals. This Special Feature is offered to recognize the volunteers who performed these functions during 2019. The list of Reviewers, Associate Editors, and Chairs below is based on data stored in ScholarOne Manuscripts and IAS records. We apologize for any omissions or errors.

Industrial and Commercial Power Systems Department

Chair: Rasheek Rifaat, Jacobs Engineering, Canada
Vice-Chair—Technical: Kent Sayler, P2S, Inc., USA
Vice-Chair—Papers: Rob Hoerauf, Hoerauf Consulting, Inc., USA

Codes and Standards Committee

Chair and Papers Review Chair: Dennis Nielsen, Lawrence Berkeley National Laboratory, USA
Associate Editors:
Thomas Dionise, Eaton Corporation, USA
Reviewers:
Abrez Mondal, Eaton Corporation, USA

Energy Systems Committee

Chair: Mahesh Illindala, Ohio State University, USA
Papers Review Chair: Yuan-Kang Wu, National Chung Cheng University, Taiwan
Associate Editors:
Ali Bidram, Univeristy of New Mexico, USA
Payman Dehghanian, George Washington University, USA

Manuscript received January 26, 2020; accepted January 26, 2020; Date of publication January 30, 2020; date of current version March 17, 2020.
Digital Object Identifier 10.1109/TIA.2020.2970573

Zhaohao Ding, North China Electric Power University, China
Mahesh Illindala, Ohio State University, USA
Dong Jiang, Huazhong University of Science and Technology, China
Ching-Ming Lai, National Chung Hsing University, Taiwan
Jingang Lai, RWTH Aachen University, Germany
Yong Li, Hunan University, China
Xiaodong Liang, University of Saskatchewan, Canada
Joydeep Mitra, Michigan State University, USA
Franklin Quilumba, Oncor Electric Delivery Co LLC, USA
Saleh Saleh, University of New Brunswick, Canada
Yuan-Kang Wu, National Chung Cheng University, Taiwan
Ming Yang, Power, China
Long Zhao, University of Texas at Arlington, USA
Reviewers:
Amany El-Zonkoly, Egypt
Fotis D. Kanellos, Technical University of Crete, Greece
Hussein Hassan Abdeltawab, Penn State Altoona, USA
Moses Acquah, University of Ghana, Ghana
Sai Akhil Reddy Konakalla, University of California San Diego, USA
Abdelfatah Ali, Budapest University of Technology and Economics, Hungary
Paudel Amrit, Nanyang Technological University, Singapore
Bruno André, Schneider Electric Energy Automation, France
Mohammad Hassan Asemani, Iran
Karl Backstrom, Chalmers University of Technology, Sweden
Ahmed Bakhsh, Saudi Aramco, Saudi Arabia
Khan Baseem, Hawassa University Institute of Technology, Ethiopia
Atri Bera, Michigan State University, USA
Ali Bidram, University of New Mexico, USA
Danilo Brandao, Universidade Federal de Minas Gerais, Brazil
Dong Cao, North Dakota State Unviersity, USA
Wenchao Cao, The University of Tennessee, Knoxville, USA
Xuanyu Cao, USA
Chandan Chakraborty, IIT Kharagpur, India

0093-9994 © 2020 IEEE. Personal use is permitted, but republication/redistribution requires IEEE permission.
See https://www.ieee.org/publications/rights/index.html for more information.

Le-Ren Chang-Chien, National Cheng Kung University, Taiwan
Laijun Chen, Tsinghua University, China
Yangyang Chen, Harbin Institute of Technology, China
Kun-Long Chen, Industrial Technology Research Institute, Taiwan
Pradhan, Chittaranjan, IIT Bhubaneswar, India
Georgios Christoforidis, Technological Education Institution of Western Macedonia, Greece
Gonzalo Constante-Flores, Ohio State University, USA
Morteza Dabbaghjamanesh, Louisiana State University, USA
JJ Dai, Eaton Corporation, USA
Ujjwal Datta, Victoria University, Australia
Masoud Davari, Georgia Southern University, USA
Ali Dehghan, California Polytechnic State University, USA
Pooria Dehghanian, Texas A&M University, USA
Zhaohao Ding, North China Electric Power University, China
Raimundo Diniz Costa Filho, Universidade Federal do Maranhao, Brazil
Maharajan Duraisamy, USA
Fayez El-Sousy, Prince Sattam bin Abdulaziz University, Saudi Arabia
Nuh Erdogan, University College Cork Coastal and Marine Research Centre, Ireland
Ruiming Fang, Huaqiao University, China
Sidun Fang, Nanyang Technological University, Singapore
Csaba Farkas, Budapest University of Technology and Economics, Hungary
Xianyong Feng, University of Texas System, USA
Francisco Freijedo, Ecole Polytechnique Federale de Lausanne, Switzerland
Xueqian Fu, China
Hemakumar Reddy Galiveeti, National Institute of Technology Silchar, India
Lei Gan, Hohai University, China
Chuanhou Gao, Zhejiang University, China
Yang Gao, Shanghai Jiao Tong University, China
Feng Gao, Nanyang Technological University, Singapore
Mohammad Ghanaatian, Washington State University, USA
Seyyed Ali Ghorashi Khalil Abadi, University of New Mexico, USA
Giorgio Graditi, ENEA Agenzia Nazionale per Le Nuove Tecnologie l'Energia e lo Sviluppo Economico Sostenibile, Italy
Balaji Guddanti, The Ohio State University, USA
Seyed Iman Habibi, K N Toosi University of Technology, Iran
Faeza Hafiz, North Carolina State University, USA
Ahmed Haidar, Universiti Malaysia Sarawak, Malaysia
Xiaoqing Han, Taiyuan University of Technology, China
Ashraf Haque, Teshmont Consultants, Canada
Ali Hasan, University of Johannesburg, South Africa
Li He, Hunan University, China
Mohammad Heidari, University of Alaska Anchorage, USA
Ting-Yen Hsieh, Green Energy and Environmental Research Laboratory Industrial Technology Research Institute, Taiwan
Yang Hu, North China Electric Power University, China
Dan Hu, Iowa State University, USA
Zhiwu Huang, Central South University, China
Fabio Immovilli, University of Modena, Italy
Amirreza Jafari, Iran
Seung Hyun Jeon, Korea Advanced Institute of Science and Technology, South Korea
Kapil Jha, Indian Institute of Technology, Kanpur, India, India
Li Jiang, Hunan University, China
Vinod Khadkikar, Masdar Institute of Science and Technology, United Arab Emirates
Tohid Khalili, University of New Mexico, USA
Irfan Khan, Texas A&M University System, USA
Gitae Kim, Hanbat National University, South Korea
Tazim Ridwan Billah Kushal, The Ohio State University, USA
Yutian Liu, China
Jingang Lai, RWTH Aachen University, Germany
Kexing Lai, The Ohio State University, USA
Paolo Lazzeroni, Istituto Superiore sui Sistemi Territoriali per l'Innovazione, Italy
Kangping Li, North China Electric Power University, China
P. Li, China
Yuanzheng Li, China
Xiaodong Liang, University of Saskatchewan, Canada
Jun Liang, Cardiff University, U.K.
Qianyi Liu, Hunan University, China
Yongjie Liu, Central South University, China
Chunhua Liu, City University of Hong Kong, China
Jiayan Liu, TU Dortmund, Germany
Mingxi Liu, University of Utah, USA
Ying Lu, North China Electric Power University, China
Songtao Lu, Iowa State University, USA
Ziming Ma, Tsinghua University, China
Matteo Manganelli, University of Parma, Italy
David Mazur, Rockwell Automation, USA
Carrion, Miguel, Universidad de Castilla-La Mancha, Spain
Seyedmahdi Moghadasi, University of North Carolina at Charlotte, USA
Kumaresan N., NIT, Tiruchirappalli, India
Roberto Napoli, Politecnico di Torino, Italy
Mostafa Nazemi, Sharif University of Technology, Iran
Mostafa Nazemi, George Washington University, USA
Dinh Hoa Nguyen, Kyushu Daigaku, Japan
Nga Nguyen, University of Wyoming, USA
Mohammad Nikkhah Mojdehi, Syracuse University, USA
Sayyad Nojavan, Iran
Motlagh, Omid, Australia
Giovanna Oriti, Naval Postgraduate School, USA
Vijay Babu Pamshetti, Indian Institute of Technology Banaras Hindu University, India
Ravi Kumar Pandit, University of Strathclyde, U.K.
Zohreh Parvini, Canada
Bala Sai Kiran Patnam, Indian Institute of Technology Gandhinagar, India
Jun Peng, Central South University, China
Jouni Peppanen, Electric Power Research Institute, USA
Petrus Pijnenburg, UNB, Canada
Binod Poudel, University of New Mexico, USA
Pranda Prasanta Gupta, Malaviya National Institute of Technology, India

B Rajanarayan Prusty, National Institute of Science and Technology, India
Franklin Quilumba, Oncor Electric Delivery Co LLC, USA
Babak Rahrovi, Texas A&M University College Station, USA
Syamasree Biswas Raha, Techno India College of Technology, India
Wadhvani Rajesh, MANIT, India
Christian Richard, University of New Brunswick, Canada
Francesco Riganti Fulginei, Roma Tre University, Italy
Intisar Ali Sajjad, University of Engineering and Technology, Pakistan
Saleh Saleh, University of New Brunswick, Canada
Farhad Samadi Gazijahani, Iran
Piampoom Sarikprueck, King Mongkut's Institute of Technology Ladkrabang, Thailand
Yilmaz Selin, University of Geneva, Switzerland
Utkarsh Sharma, Indian Institute of Technology Delhi, India
Chen Shen, Tsinghua University, China
Jie Shi, University of Jinan, China
N. Sisworahardjo, University of Tennessee at Chattanooga, USA
Jun Su, Auckland University of Technology, New Zealand
Wei Sun, The University of Edinburgh, U.K.
Wen Shan Tan, Monash University—Malaysia Campus, Malaysia
Jiashen Teh, Universiti Sains Malaysia, Malaysia
Kannan Thirugnanam, Singapore University of Technology and Design, Singapore
Supun Tiptipakorn, USA
Ricardo Torquato, University of Alberta, Canada
Mohsen Vahidzadeh, University of Iowa, USA
Maziar Vanouni, North Carolina State University, USA
Fei Wang, North China Electric Power University, China
Yajing Wang, North China Electric Power University, China
Jianxiao Wang, North China Electric Power University, China
Mingqiang Wang, Shandong University, China
Yu Wang, Nanyang Technological University, Singapore
Pei-Jen Wang, National Tsing Hua University, Taiwan
Shasha Wang, Clemson University, USA
Bo Wang, The George Washington University, USA
Shiyuan Wang, George Washington University, USA
Robert Weissbach, Indiana University Purdue University at Indianapolis, USA
David Wetz, University of Texas at Arlington, USA
Sheldon Williamson, Concordia University, Canada
Yingjun Wu, Politecnico di Torino, China
Shiwei Xia, North China Electric Power University, China
Yue Xiang, China
Jingrui Xie, SAS Institute, Inc., USA
Shuang Xu, University of New Brunswick, Canada
Chen Xu, Huazhong University of Science and Technology, China
Xiao Xu, The University of Edinburgh, U.K.
Anamika Yadav, India
Zhile Yang, Shenzhen Institutes of Advanced Technology, China
Mehmet Yesilbudak, Nevsehir Haci Bektas Veli University, Turkey
Mengmeng Yu, Hanyang University, South Korea
Chen Yuan, GEIRI North America, USA
Bo Zeng, China
Mingmin Zhang, China
Zijun Zhang, City University of Hong Kong, Hong Kong
Zhuoli Zhao, South China University of Technology, China
Tianyang Zhao, Nanyang Technological University, Singapore
Long Zhao, University of Texas at Arlington, USA
Bining Zhao, Ohio State University, USA
Yuhao Zhou, University of Texas at Arlington, USA
Feng Zhu, North China Electric Power University, China
Xingxu Zhu, Shandong University, China
Guillermo Zuniga, Instituto Tecnologico Superior de Ciudad Hidalgo, Mexico
Xiangjun Zeng, Shandong University, China

Power Systems Engineering Committee

Chair: Fabio Freschi, Politecnico di Torino, Italy
Papers Review Chair: Claudio Mardegan, EngePower, Brazil
Associate Editors:
Robert G. Arno, Peraton, USA
Ali Bidram, Univeristy of New Mexico, USA
Paul Cardinal, Shell Oil Company, USA
Payman Dehghanian, George Washington University, USA
Thomas Dionise, Eaton Corporation, USA
Gary Fox, ABB, Inc., USA
Fabio Freschi, Politecnico di Torino, Italy
Elihu Hoagland, e-Hazard.com, USA
Mahesh Illindala, Ohio State University, USA
Wei-Jen Lee, University of Texas at Arlington, USA
Xiaodong Liang, University of Saskatchewan, Canada
Haijun Liu, ETAP, USA
Fabrizio Marignetti, University of Cassino, Italy
Luigi Martirano, Sapienza University of Rome, Italy
David Mazur, Rockwell Automation, USA
Massimo Mitolo, Irvine Valley College, USA
Sergio Panetta, I-Gard Corporation, Canada
Giuseppe Parise, Sapienza University of Rome, Italy
Gianmario Pellegrino, Politecnico di Torino, Italy
Franklin Quilumba, Oncor Electric Delivery Co LLC, USA
Saleh Saleh, University of New Brunswick, Canada
Kent Sayler, P2S, Inc., USA
Kenneth Smith, K S Power Consulting, Ltd., U.K.
Marcelo Valdes, ABB, USA
Yuan-Kang Wu, National Chung Cheng University, Taiwan
Ming Yang, Power, China
Reviewers:
Fotis D Kanellos, Technical University of Crete, Greece
Maysam Abbasi, Urmia University, Iran
Shady Abdel Aleem, Egypt
Janak Acharya, ATCO Electric, Canada
Moses Acquah, University of Ghana, Ghana
Sanchit Agarwal, Indian Institute of Technology Roorkee, India
Nor Baizura binti Ahamad, Aalborg Universitet Teknisk, Denmark
Ahmed Aly Saad Ahmed, Florida International University, USA

Hirofumi Akagi, Tokyo Institute of Technology, Japan
Hadi Akbari, University of Wisconsin Milwaukee, USA
Gupta Akhil, IK Gujral Punjab Technical University—Batala Campus, India
Khaled Al Jaafari, Khalifa University of Science Technology, United Arab Emirates
M. R. Alam, Australia
Abdualah Aljankawey, The University of New Brunswick, Canada
William Allen, Howard University, USA
Norma Anglani, University of Pavia, Italy
Arash Anzalchi, Florida International University, USA
Ismael Araujo-Vargas, National Polytechnic Institute of Mexico, Mexico
Diego Arcos-Aviles, Universidad de las Fuerzas Armadas, Ecuador
Olivier Arguence, Laboratoire de Genie Electrique de Grenoble, France
Robert G. Arno, Peraton, USA
Vijay As, Indian Institute of Technology Bombay, India
Maziar Babaei, Mississippi State University, USA
Mohammad Babakmehr, Colorado School of Mines, USA
Manoj Badoni, Thapar University, India
José Baptista, University of Trás-os-Montes e Alto Douro, Portugal
Scott Basinger, Eaton Corporation, Canada
Carson Bates, Colorado School of Mines, USA
Najmeh Bazmohammadi, K. N. Toosi University of Technology, Iran
Maxime Berger, Ecole Polytechnique de Montreal, Canada
Dr. Pakkiraiah Bhupanapati, Koneru Lakshmaiah University, India
Math Bollen, USA
Daniele Bosich, University of Trieste, Italy
Salim Bouchakour, Universitat Politecnica de Catalunya, USA
M. Caceres, UNNE, Argentina
Paul Campbell, Electric Motor Shop, USA
Jianwu Cao, Enersys, Inc., USA
Paul Cardinal, Shell Oil Company, USA
Kyle Carr, Los Alamos National Laboratory, USA
David Celeita Rodriguez, Universidad de los Andes, Colombia
Arijit Chakrabarti, Indian School of Mines, India
Ci Chen, Guangdong University of Technology, China
Nan Chen, ABB Corporate Research, Sweden
Aoxia Chen, Colorado School of Mines, USA
Le Chen, University of Tennessee, USA
Jiang Cheng, Southwest Minzu University, China
Fangzhou Cheng, University of Nebraska-Lincoln, USA
Woojin Choi, Soongsil University, South Korea
Lucio Ciabattoni, Universita Politecnica delle Marche, Italy
Said Çınar, Afyon Kocatepe University, Turkey
Mehmet Cintuglu, ABB, Inc., USA
Ian Cowan, Mott MacDonald, U.K.
Wei Cui, Chongqing University, China
Karl Cunningham, IEEE, USA
JJ Dai, Eaton Corporation, USA
Masoud Davari, Georgia Southern University, USA
Youshuang Ding, Tsinghua University, China
Zhaohao Ding, North China Electric Power University, China
Suryanarayana Doolla, Indian Institute of Technology Bombay, India
Neal Dowling, MTechnology, USA
Donald Dunn, USA
Pascal Dupuis, Université Paul Sabatier, France
David Durocher, Eaton Corporation—Retired, USA
Salem Elsaiah, State University of New York, USA
Ahmed Elsayed, The Boeing, USA
Xianyong Feng, University of Texas System, USA
H. Floyd, University of Alabama at Birmingham, USA
Srinivasa Rao Gampa, Gudlavalleru Engineering College, India
Zaid Garcia Sánchez, University of New Brunswick, Canada
Mahmood Ghanbari, Gorgan Islamic Azad University, Iran
Mikhail Golovkov, Consultant, USA
Rene Graves, Texas Instruments, USA
Srinivas Gude, National Tsing Hua University, Taiwan
Yan Guo, China
Ajay Gupta, Indian Institute of Technology Bombay, India
Alvin Havens, e-Hazard Management, LLC, USA
Chris Heron, TecoWestinghouse Motor Company, USA
Erling Hesla, Hesla & Associates, USA
Donna Hodgson, Shell Exploration & Production Co., USA
Mehdi Hosseinzadeh, Universite Libre de Bruxelles, Belgium
Tong Huang, Texas A&M University College Station, USA
Zarheer Jooma, e-Hazard Management LLC, USA
Tibin Joseph, Cardiff University, U.K.
Walter Kaiser, University of São Paulo, Brazil
Mehmet Karakose, Firat Universitesi, Turkey
Masoud Karimi-Ghartemani, Mississippi State University, USA
John Kay, Rockwell Automation, Canada
Mostafa Kermani, Universita degli Studi di Roma La Sapienza, Italy
Shafiuzzaman Khadem, Tyndall National Institute, Ireland
Abdullah Khalili, Shiraz University, Iran
Tohid Khalili, University of New Mexico, USA
Hassan Khan, Lahore University of Management Sciences, Pakistan, Pakistan
Irfan Khan, Texas A&M University System, USA
Tazim Ridwan Billah Kushal, The Ohio State University, USA
Yongduk Lee, United Technologies Research Center, USA
Jingang Lai, RWTH Aachen University, Germany
Kexing Lai, The Ohio State University, USA
Regina Lamedica, Universita degli Studi di Roma La Sapienza, Italy
Sebastian Łapczyński, Poland
George Lazaroiu, University Politehnica of Bucharest, Romania
Zbigniew Leonowicz, Wroclaw University of Science and Technology, Poland
Saku Levikari, Lappeenrannan Teknillinen Yliopisto, Finland
P. Li, China
Yuanzheng Li, China
Xiaodong Liang, University of Saskatchewan, Canada
Chia-Hung Lin, National Kaohsiung University of Applied Sciences, Taiwan
Chunhua Liu, City University of Hong Kong, China

Yitao Liu, Shenzhen University, China
Jiayan Liu, TU Dortmund, Germany
Haijun Liu, ETAP, USA
Shiue-Der Lu, National Chin-Yi University of Technology, Taiwan
Daniel Morinigo-Sotelo, University of Valladolid, Spain
Meiqin Mao, China
Francesca Maradei, Sapienza University of Rome, Italy
Andrea Mazza, Italy
Matthew Marchiano, Chevron Corporation, USA
Albert Marroquin, ETAP, USA
Andy Martin, USA
Ignacio Martin-Diaz, Universidad de Guanajuato, Mexico
Tommy Martinez, Los Alamos National Laboratory, USA
Ken Mazur, Rockwell Automation, USA
Ken Michaels, USA
Dragan Mlakic´, Bosnia and Herzegovina
Salman Mohagheghi, Colorado School of Mines, USA
Hossein Ali Mohammadpour, University of South Carolina, USA
Marta Molinas, Norges Teknisk Naturvitenskapelige Universitet, Norway
Pasquale Montegiglio, Politecnico di Bari, Italy
Adson Moreira, Universidade Federal do Ceará, Brazil
Wes Mozley, Sandia National Laboratories, USA
VietHung Nguyen, Nanyang Technological University, Singapore
Roy Nutter, West Virginia University, USA
Sergio Panetta, I-Gard Corporation, Canada
Luigi Parise, Ospedale Pediatrico Bambino Gesu, Italy
Giuseppe Parise, Sapienza University of Rome, Italy
Dev Paul, AECOM, USA
Saeed Peyghami, Aalborg University, Denmark
Petrus Pijnenburg, UNB, Canada
Vimal Ramalingam, Sri Sivasubramaniya Nadar, India
Srimathi Ramasamy, VIT University—Chennai Campus, India
Sebastian Łapczyński, Poland
Gustavo Ramos, Universidad de los Andes, Colombia
Li Ran, University of Warwick, U.K.
Shriram Rangarajan, Clemson University, USA
Shiuan-Hau Rau, Shermco Industries, Inc., USA
Miloud Rezkallah, ETS, Canada
Bernardino Ricci, South Korea
Carlo Rosso, Politecnico di Torino, Italy
Zia Salami, CDM Smith, Inc., USA
Saleh Saleh, University of New Brunswick, Canada
Camila Salomon, Universidade Federal de Itajuba, Brazil
Juan Saucedo-Dorantes, Universidad Autonoma de Queretaro, Mexico
Ed Scherry, Scherry Engineering, USA
Kevin P. Schneider, USA
Mark Scott, Lawrence Berkeley National Laboratory, USA
Karthikrajan Senthilnathan, VIT University—Chennai Campus, India
Jeevanand Seshadrinath, Nanyang Technological University, Singapore
Xu She, United Technologies Corporation, USA
Jie Shi, China
Robert Simon, Hydro-Quebec, Canada
Tyler Sparks, Moffatt and Nichol, USA
Giorgio Spiazzi, University of Padova, Italy
Xavier St-Onge, University of New-Brunswick, Canada
Bill Stewart, Chevron, USA
Ray Stoodley, Real Solutions, Inc., Canada
Evangelos Stoyas, Power Systems Consulting, USA
Walter Suemitsu, Federal University of Rio de Janeiro, Brazil
Jon Are Suul, Norwegian University of Science and Technology, Norway
Wen Shan Tan, Monash University—Malaysia Campus, Malaysia
Michele Tartaglia, Politecnico di Torino, Italy
Saeed Teimourzadeh, University of Tehran, Iran
James Toal, U.K.
Baoying Tong, Steensen Varming, Australia
Marcelo Valdes, ABB, USA
Maziar Vanouni, North Carolina State University, USA
Dinesh Varma Tekumalla, Indian Institute of Technology Kharagpur, India
Manish Verma, TMEIC, USA
Chengfu Wang, Shandong University, China
Mingqiang Wang, Shandong University, China
Xin Wang, UT Arlington, USA
Bo Wang, The George Washington University, USA
Stephen Wilson, Canada
Yingjun Wu, Politecnico di Torino, China
Wei Wu, China
Bailu Xiao, The University of Tennessee, USA
Qiang Xie, Tongji University, China
Shuang Xu, University of New Brunswick, Canada
Hong Yang, Chrysler Group LLC, USA
Bardia Yousefi, Universite Laval, Canada
Chen Yuan, GEIRI North America, USA
Gaetano Zizzo, Universita degli Studi di Palermo, Italy
Mohammad Zadeh, ETAP, USA
Emrah Zerdali, Niğde Ömer Halisdemir University, Turkey
Shenxi Zhang, Shanghai Jiao Tong University, China
Zhenyuan Zhang, The University of Texas at Arlington, USA
Long Zhao, University of Texas at Arlington, USA
Lin Zhao, Gannon University, USA
Yuhao Zhou, University of Texas at Arlington, USA
Feng Zhu, North China Electric Power University, China
Lei Zhu, National Renewable Energy Laboratory, USA

Power Systems Protection Committee

Chair and Papers Review Chair: Saleh Saleh, University of New Brunswick, Canada
Associate Editors:
Ahmed Al-Durra, Khalifa University of Science Technology, United Arab Emirates
Thomas Dionise, Eaton Corporation, USA

Gary Fox, ABB, Inc., USA
Rob Hoerauf, Hoerauf Consulting, Inc., USA
Mahesh Illindala, Ohio State University, USA
Xiaodong Liang, University of Saskatchewan, Canada
Claudio Mardegan, EngePower, Brazil
David Mazur, Rockwell Automation, USA
Kashem Muttaqi, University of Wollongong, Australia
Emre Ozkop, Karadeniz Technical University, Turkey
Sergio Panetta, I-Gard Corporation, Canada
Giuseppe Parise, Sapienza University of Rome, Italy
Daniel Ransom, Doble Engineering Company, USA
Saleh Saleh, University of New Brunswick, Canada
Marcelo Valdes, ABB, USA

Reviewers:

Ricardo Abboud, Schweitzer Engineering Laboratories, USA
Maher Al-Badri, University of Alaska Fairbanks, USA
Guido Ala, Università degli Studi di Palermo, Italy
M. R. Alam, Australia
Abdualah Aljankawey, The University of New Brunswick, Canada
Bruno André, Schneider Electric Energy Automation, France
Mustafa Ayas, Karadeniz Teknik Universitesi, Turkey
Manef Bourogaoui, Laboratoire des Systèmes Electriques/Ecole Nationale d'Ingénieurs de Tunis, Tunisia
Firouz Badrkhani Ajaei, Western University, Canada
Siavash Beheshtaein, Aalborg University, Denmark
Maxime Berger, Ecole Polytechnique de Montreal, Canada
Gautami Bhatt, Bechtel Oil, Gas & Chemicals, USA
Doug Brooks, Canada
Aurelio Coelho, Federal University of Itajuba, Brazil
Paul Cardinal, Shell Oil Company, USA
David Celeita Rodriguez, Universidad de los Andes, Colombia
Le Chen, University of Tennessee, USA
Daniel Cochran, Burns and McDonnell, USA
Arturo Conde, Universidad Autonoma de Nuevo Leon, Mexico
Timothy Coyle, USA
J Das, USA
Suman Debnath, Oak Ridge National Laboratory, USA
Zhaohao Ding, North China Electric Power University, China
Ranamuka Dothinka, University of Wollongong, Australia
Donald Dunn, USA
Dan Etemadi, Canada
Yadong Fan, Wuhan University, China
Evangelos Farantatos, EPRI, USA
Xianyong Feng, University of Texas System, USA
Zaid Garcia Sánchez, University of New Brunswick, Canada
Daniel Gazzana, UFRGS, Brazil
Ramakrishna Gokaraju, University of Saskatchewan, Canada
Mohammed Haj-ahmed, The University of Jordan, Jordan
Ahmed Hebala, Arab Academy for Science Technology and Maritime Transport, Egypt
Rob Hoerauf, Hoerauf Consulting, Inc., USA
Ali Hooshyar, University of Toronto, Canada
Amin Jalilian, Iran
John Kay, Rockwell Automation, Canada
Irfan Khan, Texas A&M University System, USA
Tomasz Kisielewicz, Warsaw University of Technology, Poland
Pradeep Kumar, India
Roger Lawrence, USA
George Lazaroiu, University Politehnica of Bucharest, Romania
Hui Li, Beijing Information Science & Technology University, China
Xiang Li, China
Dawei Li, Huazhong University of Science and Technology, China
Xiaodong Liang, University of Saskatchewan, Canada
Jun Liang, Cardiff University, U.K.
Ren Liu, Washington State University, USA
Bill Lockley, Canada
Yang Lu, State Key Laboratory of Advanced Electromagnetic Engineering and Technology, China
Om Malik, University of Calgary, Canada
Ken Mazur, Rockwell Automation, USA
Haider Mohomad, Rockwell Automation Canada, Canada
Alexandre Nassif, Atco Electric, Canada
Fatih Mehmet Nuroglu, Karadeniz Technical University, Turkey
Wen Ouyang, Ford Motor Company, USA
Emre Ozkop, Karadeniz Technical University, Turkey
Giuseppe Parise, Sapienza University of Rome, Italy
Dev Paul, AECOM, USA
Corey Peterson, Rockwell Automation, Inc., USA
Petrus Pijnenburg, UNB, Canada
Raja Prabu Ramachandran, B S Abdur Rahman Crescent Institute of Science & Technology, India
Nabiollah Ramezani, University of Sience and Technology of Mazandaran, Iran
Gustavo Ramos, Universidad de los Andes, Colombia
Christian Richard, University of New Brunswick, Canada
Stefano Rinaldi, University of Brescia, Italy
Erdinc Sahin, Karadeniz Technical University, Turkey
Saleh Saleh, University of New Brunswick, Canada
Todd Sauve, Rockwell Automation, USA
David Shipp, Consultant, USA
José Silva, IFPB, Brazil
Veselin Skendzic, Schweitzer Engineering Laboratories, Inc., USA
Joseph Sottile, University of Kentucky, USA
Xavier St-Onge, University of New-Brunswick, Canada
Karthikeyan Subramaniam, The Ohio State University, USA
Peter Sutherland, General Electric Company, USA
Vuttipon Tarateeraseth, Srinakharinwirot University, Thailand
Marcelo Valdes, ABB, USA
Shuang Xu, University of New Brunswick, Canada
Yingyi Yan, Virginia Tech, USA
Muhammad Yousaf, University of Wollongong, Australia
Donald Zipse, Electrical Forensics, LLC, USA
Tieling Zhang, University of Wollongong, Australia

Rural Electric Power Committee

Chair: Christopher Brooks, ESC Engineering, Inc., USA
Papers Review Chair: Steve Collier, Conexon, USA

Associate Editor:

None

Reviewers:

None

Industrial Power Conversion Systems Department

Chair: Ayman EL-Refaie, Marquette University, USA

Vice-Chair—Papers: Pericle Zanchetta, University of Nottingham, U.K.

Electric Machines Committee

Chair and Papers Review Chair: Emmanuel B. Agamloh, Baylor University, USA

Associate Editors:

Akira Chiba, Tokyo Institute of Technology, Japan
Giulio De Donato, University of Roma "La Sapienza", Italy
Yao Duan, Vestas, USA
Rukmi Dutta, University of New South Wales, Australia
Greg Heins, Regal Beloit, Australia
Min-Fu Hsieh, National Cheng Kung University, USA
H. Karmaker, TECO Westinghouse, USA
Fabrizio Marignetti, University of Cassino, Italy
Antonio J. Marques Cardoso, CISE | University of Beira Interior (UBI), Portugal
Leila Parsa, Rensselaer Polytechnic Institute, USA
Gianmario Pellegrino, Politecnico di Torino, Italy
Mircea Popescu, Motor Design, Ltd., U.K.
Ronghai Qu, Huazhong University of Science & Technology, China
Alberto Tessarolo, University of Trieste, Italy
Silvio Vaschetto, Politecnico di Torino, Italy
Rajeev Vyas, General Motors, USA
Katsumi Yamazaki, Chiba Institute of Technology, Japan
Luca Zarri, University of Bologna, Italy
Pinjia Zhang, GE Global Research Center, USA

Reviewers:

Lassi Aarniovuori, Lappeenranta University of Technology, Finland
Angelo Accetta, National Research Council, Italy
Jesús Acero, Universidad de Zaragoza, Spain
Andrew Ackerman, NEI Electric Power Engineering, Inc., USA
Raga Ahmed, University of Tennessee at Chattanooga, USA
Ameur Fethi Aimer, University of Sciences and Technology of Oran, Algeria
Udochukwu Akuru, Stellenbosh University, South Africa
Khaled Al Jaafari, Khalifa University of Science Technology, United Arab Emirates
Maher Al-Badri, University of Alaska Fairbanks, USA
Luigi Alberti, University of Padova, Italy
Gaizka Almandoz, University of Mondragon, Spain
Ebrahim Amiri, University of New Orleans, USA
Mohammed Ansari, Indian Institute of Technology Guwahati, India
Viktor Antipov, Institute of Silicate Chemistry RAS, Russian Federation
Jose Antonino-Daviu, Universidad Politecnica Valencia, Spain
AKM Arafat, University of Akron, USA
Junichi Asama, Shizuoka University, Japan
Kais Atallah, University of Sheffield, U.K.
Apoorva Athavale, University of Wisconsin-Madison, USA
Omur Aydogmus, Firat University, Turkey
Saritha B., Indian Institute of Science Bangalore, India
Rajdeep Banerjee, India
Andrew Babel, Aurora Flight Sciences, USA
Cristian Babetto, University of Padova, Italy
Giacomo Bacco, University of Padova, Italy
Arijit Banerjee, University of Illinois at Urbana-Champaign, USA
Massimo Barcaro, Bonfiglioli SPA, Italy
Guilherme A. Barreto, Federal University of Ceara, Brazil
Partha Basu, ExxonMobil, USA
Thiago Bazzo, Universidade Federal de Santa Catarina, Brazil
Alberto Bellini, University of Bologna, Italy
Shayak Bhattacharjee, Cornell University, USA
Claudio Bianchini, University of Modena, Italy
Jonathan Bird, Portland State University, USA
Dheeraj Bobba, University of Wisconsin-Madison, USA
Chiara Boccaletti, Sapienza University of Rome, Italy
Dennis Bogh, GE, USA
Aldo Boglietti, Politecnico di Torino, Italy
Ion Boldea, Politehnica University of Timisoara, Romania
Paolo Bolognesi, University of Pisa, Italy
Mauro Bortolozzi, University of Trieste, Italy
Edson Bortoni, UNIFEI, Brazil
Tahar Boukra, Universite du 20 aout 1955 de Skikda, Algeria
Monia Bouzid, LSE-ENIT, University of Tunis EL Manar, Tunisia
Gerd Bramerdorfer, Johannes Kepler University Linz, Austria
Ian Brown, Illinois Institute of Technology, USA
Claudio Bruzzese, University of Rome La Sapienza, Italy
Robert Camilleri, Malta
E.A. Cano-Plata, Universidad Nacional de Colombia, Colombia
Matteo Carbonieri, University of Padova, Italy
Federico Caricchi, Univesity of Roma, Italy
Renato Carlson, UFSC, Brazil
Simone Castellan, University of Trieste, Italy
Andrea Cavagnino, Politecnico di Torino, Italy
Andrea Cavallini, University of Bologna, Italy
Matthias Centner, Siemens AG, Germany
Na Chai, China
Shyy-Woei Chang, National Cheng Kung University, Taiwan
Yie-Tone Chen, Taiwan
Mark Chisholm, Siemens, USA
Gilsu Choi, University of Wisconsin at Madison, USA
Guoyu Chu, University of New South Wales, Australia
Vicente Climente-Alarcon, University of Cambridge, U.K.
Carlo Concari, University of Parma, Italy
Marco Cossale, BRUSA Elektronik AG, Switzerland
Damiano D'Aguanno, Magna Powertrain AG, Austria
Araz Darba, Ghent University, Belgium
Moumita Das, IIT Bombay, India
Giulio De Donato, University of Roma "La Sapienza", Italy
Dragos Deaconu, University "Politehnica" Buchareste, Romania
Sorin Deaconu, Politechnica University of Timisoara, Romania
Michele Degano, University of Nottingham, U.K.
Miguel Delgado-Prieto, MCIA Center, Spain
Yucel Demir, MDS Motor, Ltd., Turkey

Rajesh Deodhar, IMRA Europe SAS, U.K.
Adel Deriszadeh, Politecnico di Torino, Italy
Chirag Desai, Concordia University, Canada
Yateendra Deshpande, Texas A & M University, USA
Uday Deshpande, Maxwell Technologies, USA
Marin Despalatović, FESB, University of Split, Croatia
Antonino Di Gerlando, Politecnico di Milano, Italy
Xiaofeng Ding, Beihang University, China
Wesley Doorsamy, University of Johannesburg—Doornfontein Campus, South Africa
Martin Doppelbauer, Institute of Electrical Engineering, Germany
Zhentao Du, USA
Rukmi Dutta, University of New South Wales, Australia
Chris S. Edrington, Florida State University, USA
Ayman El-Refaie, USA
Fayez El-Sousy, Prince Sattam bin Abdulaziz University, Saudi Arabia
Hassan Eldeeb, Florida International University, USA
Nada Elloumi, Ecole Nationale d'Ingenieurs de Sfax, Tunisia
Laurentiu Encica, Advanced Electromagnetics BV, Netherlands
Steven Englebretson, ABB, Inc., USA
Daniel Fodorean, Technical University of Cluj-Napoca, Romania
Babak Fahimi, University of Texas at Dallas, USA
Xinggang Fan, Huazhong University of Science and Technology, China
Shuhua Fang, Southeast University, China
Haiyang Fang, Huazhong University of Science and Technology, China
Alireza Fatemi, General Motors Corporation, USA
Eric Favre, IMI-Fluid Automation Systems, Switzerland
Guodong Feng, Sun Yat-Sen University, China
Daniel Fernandez, Universidad de Oviedo, Spain
Simone Ferrari, Politecnico di Torino, Italy
Luca Ferraris, Politecnico di Torino, Italy
Angela Ferreira, Polytechnic Institute of Bragança, Portugal
Fernando Ferreira, University of Coimbra, Portugal
Virgiliu Fireteanu, Politehnica University, Romania
Mehdi Firouzi, Iran
Rastko Fiser, University of Ljubljana, Slovenia
Barbara Florkowska, Poland
Giovanni Maria Foglia, Politecnico di Milano, Italy
Davide Fonseca, University of Beira Interior, Portugal
Shanelle Foster, Michigan State University, USA
Nicolas Frank, Texas A&M University, USA
Lucia Frosini, Università di Pavia, Italy
Takashi Fukushige, Nissan Motor Co., Ltd., Japan
Jihad Furqani, Tokyo Institute of Technology, Japan
Arturo Garcia-Perez, University of Guanajuato, Mexico
Michael Galea, University of Nottingham, U.K.
Yuting Gao, Huazhong University of Science and Technology, China
Arturo Garcia, Instituto de Investigaciones Electricas, Mexico
Baoyun Ge, C-Motive Technologies, Inc., USA
David Gerada, University of Nottingham, U.K.
Christopher Gerada, University of Nottingham, U.K.
Luca Giaccone, Politecnico di Torino, Italy
Zbigniew Gmyrek, Lodz University of Technology, Poland
Taner Goktas, Inonu Universitesi, Turkey
Cheng Gong, Georgia Institute of Technology, USA
Yasser Gritli, University of Bologna, Italy
Andries Grobler, North West University, South Africa
Wolfgang Gruber, Johannes Kepler University Linz, Austria
Francesco Guastavino, University of Genova, Italy
Mehmet Gulec, Kocaeli University, Turkey
Youguang Guo, University of Technology Sydney, Australia
Konstantinos Gyftakis, University of Edinburgh, U.K.
Yilmaz Güven, Kirklareli Universitesi, Turkey
Wentao Huang, Southeast University, China
Sukanta Halder, Indian Institute of Technology Roorkee, India
Peng Han, The Ohio State University, USA
Iftekhar Hasan, The University of Akron, USA
Mingjie He, Huazhong University of Science and Technology, China
Lijun He, GE Global Research Center, USA
Shahin Hedayati Kia, University of Picardie, France
Greg Heins, Regal Beloit, Australia
Humberto Henao, University of Picardie "Jules Verne", France
Chris Heron, TecoWestinghouse Motor Company, USA
Isao Hirotsuka, Japan
Emmanuel Hoang, SATIE—ENS Cachan, France
Timo Holopainen, ABB Finland, Finland
Dongbin Hou, Virginia Polytechnic Institute and State University, USA
Wei Hua, Southeast Unviersity, China
Yunkai Huang, Southeast University, China
Binbin Huang, Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, China
Po-Wei Huang, National Cheng Kung University, Taiwan
Tausif Husain, BorgWarner, Inc., USA
Hussain Hussain, Kuwait University, Kuwait
Thanh Anh Huynh, National Cheng Kung University, Taiwan
Maged Ibrahim, Concordia University, Canada
Mohamed Nabil Fathy Ibrahim, Kafrelsheikh University, Egypt
Fabio Immovilli, University of Modena, Italy
Rakib Islam, Dura Automotive, USA
J.W. Jansen, Technische Universiteit Eindhoven, Netherlands
Shaofeng Jia, Xi'an Jiaotong University, China
Dong Jiang, Huazhong University of Science and Technology, China
Xiaohang Jin, Zhejiang University of Technology, China
Matthew Johnson, Texas A&M University, USA
Gojko Joksimovic, University of Montenegro, Montenegro
A. Kamalaselvan, SASTRA University, India
Maarten Kamper, University of Stellenbosch, South Africa
Surya Kandukuri, University of Agder, Norway
Jacek Kaniewski, University of Zielona Gora, Poland
H. Karmaker, TECO Westinghouse, USA
Takashi Kato, Nissan motor co., Ltd., Japan
Vadim Kazakbaev, Ural Federal University, Yekaterinburg, Russia, 620002, Russian Federation
Mohd Khan, University Polytechnic Aligarh, India
Hyeon-Sik Kim, Seoul National University, South Korea

James Kirtley, Massachusetts Institute of Technology, USA
N. K Kishore, Indian Institute of Technology Kharagpur, India
Kyohei Kiyota, Toyama Daigaku, Japan
Arash Kiyoumarsi, Faculty of Engineering, Iran
Virginie Kluyskens, Universite Catholique de Louvain Ecole Polytechnique de Louvain, Belgium
Andreas Krings, ABB Corporate Research Center Sweden, Sweden
Mahesh Krishnamurthy, Illinois Institute of Technology, USA
José Kölzer, Universidade Federal de Santa Catarina, Brazil
Vincent Lanfranchi, UTC, France
Gang Lei, University of Technology, Sydney, Australia
Sufei Li, Georgia Institute of Technology, USA
Zheng Li, Hebei University of Science & Technology, China
Jean Le Besnerais, L2EP, France
Thierry Lebey, Laboratoire Plasma et Conversion d'Energie, France
Sang Bin Lee, Korea University, South Korea
Seung-Hwan Lee, University of Seoul, South Korea
Antti Lehikoinen, Aalto University, Finland
Franco Leonardi, Ford Motor Co., USA
Bruno Lequesne, Eaton, USA
Riccardo Leuzzi, Politecnico di Bari, Italy
Weili Li, Beijing Jiaotong University, China
Hongfeng Li, Tianjin University, China
Dawei Li, Huazhong University of Science and Technology, China
Jian Li, China
Ping-Lun Li, Taiwan
Guang-Jin Li, The University of Sheffield, U.K.
Yanxin Li, University of Sheffield, U.K.
Wanfeng Li, Ford Motor Company, USA
Yingjie Li, USA
Xiaodong Liang, University of Saskatchewan, Canada
Heyun Lin, Southeast University, China
Thomas Lipo, University of Wisconsin, USA
Guangwei Liu, Shenyang University of Technology, China
Guohai Liu, Jiangsu University, China
Cheng-Tsung Liu, National Sun Yat-Sen University, Taiwan
Wenbo Liu, University of Wisconsin Madison Graduate School, USA
Bill Lockley, Canada
Qinfen Lu, Zheijang University, China
Yang Lu, State Key Laboratory of Advanced Electromagnetic Engineering and Technology, China
David Lu, Toshiba International Corporation, USA
Mateus Lumertz, Universidade de São Paulo, Brazil
Urban Lundin, Uppsala Universitet Teknisk-naturvetenskapliga fakulteten, Sweden
Keith Lyles, Praxair, USA
Rui MA, Northwestern Polytechnical University, China
Cong Ma, University of Nebraska-Lincoln, USA
Mbika Muteba, University of Johannesburg, South Africa
Vincenzo Madonna, University of Nottingham, U.K.
Hanafy Mahmoud, Padova University, U.K.
Dmytro Mamchur, Kremenchuk Mykhailo Ostrohradskyi National University, Ukraine
Fabrizio Marignetti, University of Cassino, Italy
Ehsan Mazaheri-Tehrani, University of Tehran, Iran
Michael Melfi, USA
Michele Mengoni, University of Bologna, Italy
Mario Mezzarobba, University of Trieste, Italy
Yoshihiro Miyama, Mitsubishi Electric Corporation, Japan
Reza Moghaddam, ABB Corporate Research, Sweden
Ali Mohammadpour, Garrett Advancing Motion, USA
Adson Moreira, Universidade Federal do Ceará, Brazil
Seyed Abolfazl Mortazavizadeh, Isfahan University of Technology, Iran
Annette Muetze, Graz Univ. of Technology, Austria
Antonio Musolino, University of Pisa, Italy
Paul Myers, PCS Nitrogen, USA
Francisco J. Márquez-Fernández, Lunds Universitet Tekniska Hogskola, Sweden
Gia Minh Thao Nguyen, Toyota Technological Institute, Japan
Peyman Naderi, Shahid Rajaee University, Iran
Zahra Nasiri-Gheidari, Sharif University of Technology, Iran
Hossein Nejadi Koti, USA
Duc-Kien Ngo, National Cheng Kung University, Taiwan
Noriyoshi Nishiyama, Panasonic Corporation, Japan
Shuangxia Niu, the Hong Kong Polytechnic University, Hong Kong
Stefano Nuzzo, University of Nottingham, U.K.
Oladapo Ogidi, Suzlon Energy, Ltd., Germany
Mansour Ojaghi, University of Zanjan, Iran
Javier Ojeda, Ecole Normale Supérieure de Cachan, France
Matteo Olivo, Universita degli Studi di Trieste Dipartimento di Ingegneria e Architettura, Italy
Hashem Oraee, Sharif University of Technology, Iran
Mohamed Osama, GE Global Research Center, Germany
Hung-Yen Ou Yang, SERES EV, USA
Wen Ouyang, Ford Motor Company, USA
Alireza Pouraminaein, University of New South Wales, Australia
Siavash Pakdelian, UMass Lowell, USA
Marco Palmieri, Italy
Jun-Kyu Park, Universita degli Studi di Padova Dipartimento di Ingegneria Industriale, Italy
Blake Parker, Integrated Power Services, USA
Roberto Perini, Politecnico di Milano Dipartimento di Energia, Italy
Yves Perriard, EPFL, Switzerland
Pragasen Pillay, Concordia University, Canada
Carlos Platero, Universidad Politécnica de Madrid, Spain
Mircea Popescu, Motor Design, Ltd., U.K.
Ali Asghar Pourmoosa, Iran
Prajof Prabhakaran, Indian Institute of Technology Bombay, India
Mario Pulvirenti, University of Catania, Italy
Ronghai Qu, Huazhong University of Science & Technology, China
Zengcai Qu, ABB Oy, Finland
Daniel Roger, Universite d'Artois, France
S. F. Rabbi, Memorial University of Newfoundland, Canada
Tanvir Rahman, McGill University, Canada

Vandana Rallabandi, University of Kentucky, USA
Tsarafidy Raminosoa, Oak Ridge National Laboratory, USA
Mohd Azri Hizami Rasid, Universiti Malaysia Pahang, Malaysia
Peter Rasmussen, Aalborg University, Denmark
Samala Santosh Reddy, USA
Patel Reddy, General Electric Global Research Center, USA
Xiang Ren, Huazhong University of Science and Technology, China
Gabriele Rizzoli, University of Bologna, Italy
Roberto Rocca, University of Nottingham, U.K.
Pedro Rodriguez, ABB, Sweden
Raphael Romary, Artois University, France
Leopoldo Rossini, Centre Suisse d'Electronique et de Microtechnique (CSEM) SA, Switzerland
Roberto Rosso, ENERCON GmbH, Germany
Mircea Ruba, Technical University of Cluj-Napoca, Romania
Bryan Ruddy, The University of Auckland, New Zealand
Mehdi Salehifar, University Polytechnica de Catalunya, Spain
Anik Samanta, Indian Institute of Technology Kharagpur, India
Masayuki Sanada, Osaka Prefecture University, Japan
Kensuke Sasaki, Nissan Motor Co., Ltd., Japan
Mladen Sasic, Iris Power LP, Canada
Giacomo Scelba, University of Catania, Italy
Peter Schmidt, Rockwell Automation, USA
Tomy Sebastian, Halla Mechatronics, USA
Alessandro Serpi, University of Cagliari, Italy
Jeevanand Seshadrinath, Nanyang Technological University, Singapore
Eric Severson, University of Minnesota, USA
Manoj Shah, Rensselaer Polytechnic Institute, USA
Chaojie Shi, Huazhong University of Science and Technology, China
Yuying Shi, Robert Bosch LLC, USA
Ravi Prakash Reddy Siddavatam, IISC Bangalore, India
Chandan Sikder, NC State University, USA
Siegfried Silber, Linz Center of Mechatronics GmbH, Austria
Nick Simpson, University of Bristol, U.K.
Wen Soong, University of Adelaide, Australia
Juliette Soulard, University of Warwick, U.K.
Yilmaz Sozer, The University of Akron, USA
Rakesh Srivastava, Institute of Technology Banaras Hindu University, India
Stjepan Stipetic, University of Zagreb, Croatia
Elias Strangas, Michigan State University, USA
Bojan Stumberger, Faculty of Electrical Engineering and Computer Science, Slovenia
Hiroya Sugimoto, Tokyo Institute of Technology, Japan
Yi Sui, Harbin Institute of Technology, China
Seung-Ki Sul, Seoul National University, South Korea
Jianbo Sun, Huazhong University of Science & Technology, China
Akeshi Takahashi, Hitachi, Ltd., Japan
Md Hairul Nizam Talib, Universiti Teknikal Malaysia Melaka, Malaysia
Zhuangyao Tang, University of Texas at Dallas, USA
Narges Taran, University of Kentucky, USA
Mark Thiele, Regal Beloit, Australia
Leon Tolbert, The University of Tennessee, USA
Hamid Toliyat, Texas A&M University, USA
David Torrey, GE Global Research, USA
Ioannis Tsoumas, ABB Schweiz AG, Switzerland
Marco Tursini, University of L'Aquila, Italy
Yasuhito Ueda, Toshiba Corporation, Japan
Stephen Umans, USA
Nikita Uzhegov, SpinDrive, Finland
Alfredo Vagati, Politecnico di Torino, Italy
Abolfazl Vahedi, Iran University of Science & Technology, Iran
Mostafa Valavi, Norwegian University of Science and Technology (NTNU), Norway
Khang Van Huynh, University of Agder, Norway
Silvio Vaschetto, Politecnico di Torino, Italy
Rajeev Vyas, General Motors, USA
Oliver Wallscheid, University Paderborn, Germany
Wayne Walters, General Cable, USA
Shanming Wang, Tsinghua University, China
Likun Wang, China
Kai Wang, Nanjing University of Aeronautics and Astronautics, China
Zheng Wang, China
Dong Wang, Aalborg Universitet, Denmark
Yawei Wang, University of Padova, Italy
Rong-Jie Wang, Stellenbosch University, South Africa
Bo Wang, University of Sheffield, U.K.
Kai Wang, Ansys., Inc., USA
Jens Weber, Technische Universität Dresden, Germany
Steve Williams, Co-op Refinery Complex, Canada
Rafał Wojda, ABB Poland, Poland
Thomas M. Wolbank, Austria
Iain Wright, SaskPower, Canada
Rafal Wrobel, University of Bristol, U.K.
Yi-Chang Wu, National Yunlin University of Science and Technology, Taiwan
Zhongze Wu, University of Bath, U.K.
Fan Wu, Marquette University, USA
Kangfu Xie, Huazhong University of Science and Technology, China
Wei Xu, Huazhong University of Science and Technology, China
P. Xu, University of Sheffield, U.K.
Shu Yamamoto, Polytechnic University, Japan
Katsumi Yamazaki, Chiba Institute of Technology, Japan
J. Yang, Hunan University, China
Hui Yang, Southeast University, China
Alejandro G. Yepes, University of Vigo, Spain
Jangho Yun, South Korea
Dihui Zeng, China
Xiaochen Zhang, Beijing Jiaotong University, China
Chengming Zhang, Harbin Institute of Technology, China
Zhuoran Zhang, Nanjing University of Aeronautics and Astronautics, China
Dongdong Zhang, Xi'an Jiaotong University, China
He Zhang, University of Nottingham, China
Chang-Fan Zhang, China
Shen Zhang, Georgia Institute of Technology, USA
Zhiwei Zhang, Ohio State University, USA

Julia Zhang, The Ohio State University, USA
Huan Zhang, University of Florida, USA
Zhenbin Zhang, Shandong University, USA
Yichao Zhang, University of Wisconsin Madison, USA
Peng Zhang, General Motors, USA
Haisen Zhao, North China Electric Power University, China
Wenliang Zhao, Shandong University, China
Fei Zhao, Harbin Institute of Technology, China
Wenxiang Zhao, Jiangsu University, China
Lin Zhao, Gannon University, USA
Sa Zhu, Southeast University, China

Industrial Drives Committee

Chair: Fernando Briz, University of Oviedo, Spain
Papers Review Chair: Mahesh Swamy, Yaskawa Electric America, USA
Associate Editors:
Davide Barater, University of Parma, Italy
Kevin Lee, Eaton, USA
Roberto Petrella, University of Udine, Italy
Marcello Pucci, Institute for Marine Engineering (INM), Italy
Ramakrishnan Raja, Halla Mechatronics, USA
David Reigosa, University of Oviedo, Spain
Giacomo Scelba, University of Catania, Italy
Long Wu, John Deere Electronic Solutions, USA
Pinjia Zhang, GE Global Research Center, USA
Yue Zhao, University of Arkansas, USA
Reviewers:
Mohan Aware, VNIT, India
Muhammad Adnan, National University of Computer and Emerging Sciences—Peshawar, Pakistan
Udochukwu Akuru, Stellenbosh University, South Africa
Kazi Alam, Australia
Gheorghe-Daniel Andreescu, University Politehnica of Timisoara, Romania
AKM Arafat, University of Akron, USA
James Armes, USA
Apoorva Athavale, University of Wisconsin-Madison, USA
Murat Barut, Nigde Omer Halisdemir University, Turkey
Andrew Babel, Aurora Flight Sciences, USA
Massimo Barcaro, Bonfiglioli SPA, Italy
Ali Bazzi, University of Connecticut, USA
Alberto Bellini, University of Bologna, Italy
Subhadeep Bhattacharya, Canada
G. Bhuvaneswari, Indian Institute of Technology Delhi, India
Claudio Bianchini, University of Modena, Italy
Radu Bojoi, Politecnico di Torino, Italy
Ion Boldea, Politehnica University of Timisoara, Romania
Silverio Bolognani, University of Padova, Italy
Anil Kumar Bonala, National Institute of Technology Warangal, India
Mauro Bortolozzi, University of Trieste, Italy
Fernando Briz, University of Oviedo, Spain
Giampaolo Buticchi, University of Nottingham—Ningbo China, China
Bharatiraja C, SRM University, India
Sandro Calligaro, Free University of Bozen Bolzano, ITALY, Italy
José Cardoso, Escola Politecnica Da Usp, Brazil
Cedric Caruana, University of Malta, Malta
Surajit Chattopadhyay, MCKV Institute of Engineering, India
Yie-Tone Chen, Taiwan
Fangzhou Cheng, University of Nebraska-Lincoln, USA
Chia-Chi Chu, National Tsing Hua University, Taiwan
Adrien Corne, Universite de Lorraine ENSEM, France
Marco Cossale, BRUSA Elektronik AG, Switzerland
Sérgio Cruz, University of Coimbra, Portugal
S. Alireza Davari, Shahid Rajaee Teacher Training University, Iran
Giulio De Donato, University of Roma "La Sapienza", Italy
Michele Degano, University of Nottingham, U.K.
Stijn Derammelaere, UGent, Belgium
Wesley Doorsamy, University of Johannesburg—Doornfontein, South Africa
Jesus Doval-Gandoy, Universidade de Vigo, Spain
Drazen Dujic, ABB Corporate Research, Switzerland
Rukmi Dutta, University of New South Wales, Australia
Sumit Dutta, John Deere Electronics Solutions, USA
Diego F. Laborda, Universidad de Oviedo, Spain
Salvatore Foti, Universita degli Studi di Messina, Italy
Shuhua Fang, Southeast University, China
Ahmed Fathy Youssef Mohamed Abouzeid, Port Said University, Egypt
Eric Favre, IMI-Fluid Automation Systems, Switzerland
Guodong Feng, Sun Yat-Sen University, China
Daniel Fernandez, Universidad de Oviedo, Spain
Huthaifa Flieh, University of Wisconsin Madison, USA
Nisai Fuengwarodsakul, The Sirindhorn International Thai-German Graduate School of Engineering, Thailand
Alessandro Galassini, University of Nottingham, U.K.
Zhi (George) Gao, Eaton, USA
Aditya Ghule, University of Wisconsin Madison, USA
Cheng Gong, Georgia Institute of Technology, USA
Cristina Gonzalez Moral, Universidad de Oviedo, Spain
K. Gopakumar, Indian Institute of Science, India
Giovanni Griva, Politecnico di Torino, Italy
Juan Guerrero, Universidad de Oviedo, Spain
Xu Han, Texas A&M University, USA
Saeid Haghbin, Elbind Elektronik AB, Sweden
Peng Han, The Ohio State University, USA
Lennart Harnefors, ABB Corporate Research Center Sweden, Sweden
Jiangbiao He, University of Kentucky, USA
Marko Hinkkanen, Aalto University, Finland
Mohammad Hosein Holakooie, Iran
Alenka Hren, University of Maribor, Slovenia
Haibing Hu, Nanjing University of Aeronautics and Astronautics, China
Yihua Hu, University of Liverpool, U.K.
Wei Hua, Southeast Unviersity, China
Francesco Iannuzzo, Aalborg University, Denmark
Fabio Immovilli, University of Modena, Italy
Mohammad Islam, USA

Jihoon Jang, General Motors Advanced Technology Center, USA
J.W. Jansen, Technische Universiteit Eindhoven, Netherlands
Ye Gu Kang, University of Wisconsin Madison, USA
Piyush Kant, Indian Institute of Technology Delhi, India
Ralph Kennel, Technische Universitat Munchen, Germany
Jang-Mok Kim, South Korea
Emilio Lorenzani, Italy
Kibok Lee, Incheon National University, South Korea
Jae Suk Lee, Chonbuk National University, South Korea
Sang Bin Lee, Korea University, South Korea
Stefan Leitner, Christian Doppler Laboratory for Brushless Drives for Pump and Fan Applications, Austria
Bruno Lequesne, Eaton, USA
John Letal, Iris Power, Canada
Kai Li, Tsinghua University, China
Bin Li, China
Jian Li, China
Hui Li, FSU, USA
Alessandro Lidozzi, Universita degli Studi Roma Tre, Italy
Nan Lin, University of Arkansas Fayetteville, USA
Thomas Lipo, University of Wisconsin, USA
Chunhua Liu, City University of Hong Kong, China
Jiaming Liu, University of Sheffield, U.K.
Fang Luo, University of Arkansas, USA
Oscar López Sánchez, University of Vigo, Spain
Yu Miao, McMaster University, Canada
Vito Giuseppe Monopoli, Politecnico di Bari, Italy
Mohammad Mahmud, University of Arkansas Fayetteville, USA
Pavol Makys Makys, Univerzity of zilina, Slovakia
Alessandro Marfoli, University of Nottingham, U.K.
Maria Martinez, University of Oviedo, Spain
Lesedi Masisi, University of the Witwatersrand, South Africa
Ehsan Mazaheri-Tehrani, University of Tehran, Iran
Mwana Wa Kalaga Mbukani, Stellenbosch University, South Africa
Michele Mengoni, University of Bologna, Italy
Giovanni Migliazza, Universita degli Studi di Modena e Reggio Emilia, Italy
Santanu Mishra, Indian Institute of Technology Kanpur, India
Mahmadasraf Mulla, Sardar Vallabhbhai National Institute of Technology, India
Kwanghee Nam, South Korea
Yue Nie, Illinois Institute of Technology, USA
Shafiq Odhano, University of Nottingham, U.K.
Abdul Ofoli, UTC, USA
Yuhei Okazaki, ABB Corporate Research Center Sweden, Sweden
Hung-Yen Ou Yang, SERES EV, USA
Emre Ozkop, Karadeniz Technical University, Turkey
Di Pan, GE Global Research, USA
Savvas Papadopoulos, Edinburgh Napier University, U.K.
Savvas Papadopoulos, University of Nottingham, U.K.
Thiago Parreiras, Federal University of Minas Gerais, Brazil
Paolo Pescetto, Politecnico di Torino, Italy
Roberto Petrella, University of Udine, Italy
Ivan Petric, University of Padova, Italy
Pragasen Pillay, Concordia University, Canada
Rajeshkumar Prasad, Sardar Vallabhbhai National Institute of Technology, India
Marcello Pucci, Institute for Marine Engineering (INM), Italy
Mario Pulvirenti, University of Catania, Italy
Zhentian Qian, Zhejiang University, China
David Reigosa, University of Oviedo, Spain
Sandro Rubino, Politecnico di Torino, Italy
Raghu Selvaraj, Indian Institute of Technology Roorkee, India
Seppo Saarakkala, Aalto University School of Electrical Engineering, Finland
Saleh Saleh, University of New Brunswick, Canada
Filippo Savi, University of Nottingham—Ningbo China, China
Giuseppe Scarcella, University of Catania, Italy
Giacomo Scelba, University of Catania, Italy
Peter Schmidt, Rockwell Automation, USA
Tomy Sebastian, Halla Mechatronics, USA
Jul-Ki Seok, Yeungnam University, South Korea
Alessandro Serpi, University of Cagliari, Italy
Antonino Sferlazza, University of Palermo, Italy
Yuying Shi, Robert Bosch LLC, USA
Rejeki Simanjorang, Rolls-Royce, Singapore
Stan Simms, USA
Brij Singh, John Deere, USA
Fausto Stella, Politecnico di Torino, Italy
Mischa Steurer, Florida State University, USA
Elias Strangas, Michigan State University, USA
Gheorghe-Eugen Subtirelu, University of Craiova, Romania
Seung-Ki Sul, Seoul National University, South Korea
Mark Sumner, University of Nottingham, U.K.
Dan Sun, Zhejiang University, China
Warachart Suwan-ngam, King Mongkut's Institute of Technology Ladkrabang, Thailand
Lorand Szabo, Technical University of Cluj, Romania
Hanning Tang, Eaton, USA
Angelo Tani, University of Bologna, Italy
Alberto Tessarolo, University of Trieste, Italy
Fabio Tinazzi, University of Padova, Italy
Jose Titus, Indian Institute of Technology Madras, India
Ambra Torreggiani, Universita degli Studi di Modena e Reggio Emilia, Italy
Andrea Toscani, University of Parma, Italy
Mohammad Sedigh Toulabi, Fiat Chrysler Automobiles (FCA) US LLC, USA
Mohamed Trabelsi, Ecole Navale, France
Mikhail Tsypkin, Vibration Specialty Corporation, USA
Wencong Tu, Northwestern Polytechnical University, China
Marco Tursini, University of L'Aquila, Italy
Md Wasi Uddin, Schaeffler Group USA, Inc., USA
Alfredo Vagati, Politecnico di Torino, Italy
Giorgio Valente, Nottingham University, U.K.
Krishna Vasudevan, IIT Madras, India
Rajeev Vyas, General Motors, USA
Yijie Wang, Harbin Institute of Technology, China
Gaolin Wang, Harbin Institute of Technology, China
Dong Wang, Aalborg Universitet, Denmark

Yukai Wang, University of Wisconsin-Madison, USA
Kang Wang, University of Wisconsin-Madison, USA
Huiqing Wen, China
Yuheng Wu, University of Arkansas Fayetteville, USA
Zhichao Wu, Eaton, USA
Wei Xu, Huazhong University of Science and Technology, China
Dehong Xu, institute of power electronics, China
Peilin Xu, University of Sheffield, U.K.
Shu Yamamoto, Polytechnic University, Japan
Yingyi Yan, Virginia Tech, USA
Chunyu Yang, China University of Mining and Technology, China
Wenxi Yao, China
Alejandro G. Yepes, University of Vigo, Spain
Anno Yoo, General Motors, USA
Arzhang Yousefi-Talouki, ABB Oy Drives and Controls, Finland
Emrah Zerdali, Niğde Ömer Halisdemir University, Turkey
Dongdong Zhang, Xi'an Jiaotong University, China
Xin Zhang, Nanyang Technological University, Singapore
Yuzhi Zhang, ABB, Inc., USA
Zhiwei Zhang, Ohio State University, USA
Wen Zhang, University of Tennessee, USA
Zhe Zhang, University of Nebraska-Lincoln, USA
Pinjia Zhang, GE Global Research Center, USA
Yue Zhao, University of Arkansas, USA
Z Zhu, University of Sheffield, U.K.
Guangqi Zhu, Eaton Corporation, USA

Industrial Power Converter Committee

Chair: Grant Pitel, Magna-Power Electronics, USA
Papers Review Chair: Pericle Zanchetta, University of Nottingham, U.K.
Associate Editors:
Vivek Agarwal, Indian Institute of Technology-Bombay, India
Mahshid Amirabadi, Northeastern University, USA
Norma Anglani, University of Pavia, Italy
Davide Barater, University of Parma, Italy
Stefano Bifaretti, University of Rome Tor Vergata, Italy
Huang-Jen Chiu, National Taiwan University of Science and Technology, Taiwan
Maurizio Cirrincione, University of the South Pacific, Fiji
Dong Dong, Virginia Tech, USA
Liang Du, Temple University, USA
Andrea Formentini, University of Nottingham, U.K.
Jiangbiao He, University of Kentucky, USA
Dong Jiang, Huazhong University of Science and Technology, China
Surin Khomfoi, King Mongkut's Institute of Technology Ladrakabang, Thailand
Xiaonan Lu, Temple University, USA
Santanu Mishra, Indian Institute of Technology Kanpur, India
Vito Giuseppe Monopoli, Politecnico di Bari, Italy
Babak Parkhideh, University of North Carolina at Charlotte, USA
Roberto Petrella, University of Udine, Italy
Marcello Pucci, Institute for Marine Engineering (INM), Italy
Jean-Luc Schanen, G2ELab—Univ Grenoble Alpes, France
Xu She, United Technologies Corporation, USA
Luca Solero, University Roma Tre, Italy
Yongsug Suh, Chonbuk National University, South Korea
Xiongfei Wang, Aalborg University, Denmark
Zhiqiang Wang, Huazhong University of Science and Technology, China
Lixiang Wei, Rockwell Automation, USA
Xibo Yuan, The University of Bristol, U.K.
Pericle Zanchetta, University of Nottingham, U.K.
Junming Zhang, Zhejiang University, China
Zheyu Zhang, Clemson University, USA
Reviewers:
Hareesh A., Government Engineering College Thrissur, India
Mohan Aware, VNIT, India
Mahmoud Abdallah, South Valley University, Egypt
Shankar Abhinav, University of Texas at Arlington, USA
T Abhiram, Osmania University, India
Ezzidin Hassan Aboadla, International Islamic University Malaysia, Malaysia
Angelo Accetta, National Research Council, Italy
Jesús Acero, Universidad de Zaragoza, Spain
Sonam Acharya, Indian Institute of Technology Kanpur, India
Sayan Acharya, North Carolina Central University, USA
Ehsan Afshari, Northeastern University, USA
Mohammed Agamy, University at Albany, USA
Vivek Agarwal, Indian Institute of Technology-Bombay, India
Anish Ahmad, Indian Institute of Technology (B.H.U.) Varanasi, India
Khaled Ahmed, University of Aberdeen, U.K.
Shamsul Aizam Zulkifli, Universiti Tun Hussein Onn Malaysia, Malaysia
Kan Akatsu, Shibaura Institute of Technology, Japan
Mohammad Meraj Alam, VITO NV, Belgium
Zunaib Ali, Frederick University, Cyprus
Syed Huzaif Ali, University of Texas at Dallas, USA
Abdualah Aljankawey, The University of New Brunswick, Canada
Abdulhakeem Alsaleem, Colorado School of Mines, USA
Mohammed Alsolami, The Ohio State University, USA
Necmi Altin, Gazi University, Turkey
Roberto Alves Baraciarte, ABB Corporate Research Center Sweden, Sweden
Fernando Amaral, Universidade Federal de Minas Gerais, Brazil
Albino Amerise, University of Bologna, Italy
Mahshid Amirabadi, Northeastern University, USA
Zheng An, Georgia Institute of Technology, USA
António Andrade, Universidade Federal de Santa Maria, Brazil
Ragusa Antonella, CNR, Italy
Vijay As, Indian Institute of Technology Bombay, India
Panagiotis Asimakopoulos, CERN, Switzerland
Oriol Aviñó Salvadó, IMB CNM, Spain
M A Awal, North Carolina State University, USA
Agasthya Ayachit, Wright State University Center for Global Health, USA
Omur Aydogmus, Firat University, Turkey
Francisco Azcondo, University of Cantabria, Spain
Seunghun Baek, Kyungnam University, South Korea

Behrooz Bahrani, Monash University, Australia
Haofeng Bai, Aalborg University, Denmark
Hao Bai, Universite de Technologie de Belfort-Montbeliard, France
Hua Bai, University of Tennessee, USA
Mark Bakran, University of Bayreuth, Germany
Arijit Banerjee, University of Illinois at Urbana-Champaign, USA
Davide Barater, University of Parma, Italy
Kaushik Basu, Indian Institute of Science, India
Reinhold Bayerer, None, Germany
Armando Bellini, University of Rome Tor Vergata, Italy
Joseph Benzaquen, Kansas State University, USA
Steffen Bernet, TU Dresdem, Germany
Shayak Bhattacharjee, Cornell University, USA
Amit Bhattacharjee, University of Central Florida, USA
Subhadeep Bhattacharya, Canada
Tanmoy Bhattacharya, IIT Kharagpur, India
Dr. Pakkiraiah Bhupanapati, Koneru Lakshmaiah University, India
Stefano Bifaretti, University of Rome Tor Vergata, Italy
Jonathan Bird, Portland State University, USA
Ion Boldea, Politehnica University of Timisoara, Romania
Jessica Boles, Massachusetts Institute of Technology, USA
Felipe Bovolini Grigoletto, Universidade Federal do Pampa, Brazil
Concettina Buccella, Universita degli Studi dell'Aquila, Italy
Emilio Bueno, Universidad de Alcala de Henares, Spain
Tiago Busarello, Universidade Federal de Santa Catarina, Brazil
Simone Buso, University of Padova, Italy
Sergio Busquets-Monge, Universitat Politècnica de Catalunya, Spain
Giampaolo Buticchi, University of Nottingham—Ningbo China, China
Bharatiraja C., SRM University, India
Linglin Chen, Zhejiang University, China
Sandro Calligaro, Free University of Bozen Bolzano, Italy
Bo Cao, University of New Brunswick, Canada
Lingling Cao, Harbin Institute of Technology, Shenzhen, China
Guoen Cao, Chinese Academy of Sciences, China
Dong Cao, North Dakota State Unviersity, USA
Jianwu Cao, Enersys, Inc., USA
Rosario Casanueva, University of Cantabria, Spain
Merlin Chai, National University of Singapore, Singapore
En-Chih Chang, I-Shou University, Taiwan
Ye-Then Chang, Taiwan
Rajat Channappanavar, Indian Institute of Technology Kanpur, India
Henglin Chen, Zhejiang University, China
Alian Chen, Shandong University, China
Wu Chen, Southeast University, China
Xi Chen, Huazhong University of Science and Technology, China
Jianan Chen, Huazhong University of Science and Technology, China
Guipeng Chen, Xiamen University, China
Hsin-Chih Chen, Taiwan
Fang Chen, Virginia Tech, USA
Huanyu Chen, The Ohio State University, USA
Le Chen, University of Tennessee, USA
Xi Chen, University of Central Florida, USA
Winway Chen, Renesas Electronics Corporation America, USA
Weiqiang Chen, University of Connecticut, USA
Po-Tai Cheng, National Tsing Hua University, Taiwan
Jim Chi, National Taiwan University of Science and Technology, Taiwan
Younghoon Cho, Konkuk University, South Korea
Woo Young Choi, Chonbuk National Univ., South Korea
Woojin Choi, Soongsil University, South Korea
Shihfeng Chou, Aalborg Universitet Teknisk, Denmark
Sajad Chowdhury, Oak Ridge National Laboratory, USA
Ching-Chin Chuang, National Yunlin University of Science and Technology, Taiwan
Maria Cimoroni, University of L'Aquila, Italy
Levy Costa, Christian-Albrechts-Universität zu Kiel, Germany
Shenghui Cui, RWTH Aachen University, Germany
NingYi Dai, University of Macau, Macao
Marco Dalla Costa, UFSM, Brazil
Manoj Datta, RMIT University, Australia
Giulio De Donato, University of Roma "La Sapienza", Italy
Suman Debnath, Oak Ridge National Laboratory, USA
Appa Rao Dekka, Lakehead University, Canada
Fujin Deng, Southeast University, China
Anubrata Dey, IIT Roorkee, India
Marco Di Benedetto, University Roma Tre, Italy
Christina DiMarino, Virginia Polytechnic Institute and State University, USA
Francisco Diaz, University of Cantabria, Spain
Zhou Dong, University of Tennessee, USA
Sixing Du, Canada
Xiao Du, Chongqing University, China
Sumit Dutta, John Deere Electronics Solutions, USA
Oindrilla Dutta, City College of New York, USA
Noureldeen Elsayad, Florida International University, USA
Mohammad Etemadrezaei, North Carolina State University, USA
Paul Evans, University of Nottingham, U.K.
Leonardo Falco, Italy
Manyi Fan, University of the Chinese Academy of Sciences, China
Boran Fan, Virginia Polytechnic Institute and State University, USA
Rajesh Farswan, Indian Institute of Technology Bombay, India
Chao Fei, USA
Derick Furquim Pereira, Universidade Federal do Rio de Janeiro, Brazil
Shiny G, College of Engineering Trivandrum, India
Naci Genc, Van Yuzuncu Yil University, Turkey
Sivanagaraju Gangavarapu, Concordia University, Canada
Congzhe Gao, Beijing Institute of Technology, China
Guillaume Gateau, Laboratoire LAPLACE, France
Xinglai Ge, Southwest Jiaotong University, China
Amer Ghias, Nanyang Technological University, Singapore
Arnab Ghosh, National Institute of Technology Rourkela, India

Santu Giri, CSIR-Central Mechanical Engineering Research Institute, India
Riccardo Giussani, HVPD, Ltd., U.K.
Sverre Gjerde, Norwegian University of Science and Technology, Norway
Michael Gleissner, University of Bayreuth, Germany
Saeed Golestan, Aalborg University, Denmark
Saman A. Gorji, Swinburne University of Technology, Australia
Petar Grbovic, Huawei, Germany
Antonio Griffo, University of Sheffield, U.K.
Ling Gu, China
Yueshi Guan, Harbin Institute of Technology, China
Francesco Guastavino, University of Genova, Italy
Handong Gui, University of Tennessee, USA
Yonghao Gui, Aalborg University, Denmark
Srinivas Gulur, North Carolina State University, USA
Rajesh Gupta, MNNIT Allahabad, India
Jung-Ik Ha, Seoul National University, South Korea
Lijun Hang, USA
Enamul Haque, Deakin University, Australia
Lennart Harnefors, ABB Corporate Research Center, Sweden
Fumiya Hattori, Shimane University, Japan
John Hayes, University College, Ireland
Samir Hazra, North Carolina State University, USA
Pham Phu Hieu, Virginia Polytechnic Institute and State University, USA
Frederick Hoadley, ABB, USA
Md Hossain, Curtin University, Australia
Dongbin Hou, Virginia Polytechnic Institute and State University, USA
Yao-Ching Hsieh, National Sun Yat-sen University, Taiwan
Xing Hu, Southeast University, China
Jingxin Hu, Rheinisch Westfalische Technische Hochschule Aachen, Germany
Kun Hu, University of Georgia, USA
Pin-Yu (Peter) Huang, Kyoto Institute of Technology, Japan
Xiucheng Huang, Virginia Polytechnic Institute and State University, USA
Kyeon Hur, Yonsei University, South Korea
Mosaddique Hussain, Indian Institute of Technology Bombay, India
Atif Iqbal, Qatar University, Qatar
Cursino Jacobina, Federal University of Campina Grande, Brazil
Jihoon Jang, General Motors Advanced Technology Center, USA
Yeonho Jeong, USA
Aman Jha, Indian Institute of Technology Delhi, India
Shiqi Ji, University of Tennessee, USA
Dong Jiang, Huazhong University of Science and Technology, China
Zheming Jin, Aalborg Universitet, Denmark
Julio Justino, CEFET-MG—Centro Federal de Educação Tecnológica de Minas Gerais, Brazil
Venkata Ravi Kishore Kanamarlapudi, Nanyang Technological University, Singapore
A Kirubakaran, National Institute of Technology Warangal, India
Ujjwal Kalla, Indian Institute of Technology New Delhi, India
Petros Karamanakos, Tampereen Teknillinen yliopisto, Finland
Ramin Katebi, Marquette University, USA
Ralph Kennel, Technische Universitat Munchen, Germany
Ozan Keysan, Turkey
Ashraf Khan, Kyungpook National University, South Korea
Irfan Khan, Texas A&M University System, USA
Sungmin Kim, Hanyang University—ERICA Campus, South Korea
Jang-Mok Kim, South Korea
Taesic Kim, Texas A&M University-Kingsville, USA
Kathryn Klement, Hatch, Ltd., Canada
Tarakanath Kobaku, IIT Bombay, India
Georgios Konstantinou, The University of New South Wales, Australia
Juhamatti Korhonen, Lappeenranta University of Technology, Finland
Radha Sree Krishna Moorthy, United Technologies Research Center, Ireland
Geethi Krishnan, Indian Institute of Technology, Bombay, India
Vinod Kumar, Indian Institute of Technology, India
Ashish Kumar, University of Colorado Boulder, USA
Yuttana Kumsuwan, Chiang Mai University, Thailand
Utsab Kundu, Indian Institute of Technology Kanpur, India
Shashank Kurm, Indian Institute of Technology, Bombay, India
Tazim Ridwan Billah Kushal, The Ohio State University, USA
Y. C. Liu, Taiwan
Jong-Pil Lee, Korea Electrotechnology Research Institute, South Korea
Jae Suk Lee, Chonbuk National University, South Korea
Seung-Hwan Lee, University of Seoul, South Korea
Chia-Tse Lee, National Tsing Hua University, Taiwan
Hung-Chi Lee, National Taiwan University of Science and Technology, Taiwan
Woongkul Lee, University of Wisconsin Madison, USA
Qin Lei, Arizona State University, USA
Riccardo Leuzzi, Politecnico di Bari, Italy
Kai Li, Tsinghua University, China
Chushan Li, Zhejiang University, China
Haoran Li, Nanjing University of Aeronautics and Astronautics, China
Sufei Li, Georgia Institute of Technology, USA
Ying Li, Nanjing University of Aeronautics and Astronautics, China
Qiao Li, China
Xiaoqiang Li, China University of Mining and Technology, China
Helong Li, Cree Europe, Germany
Sinan Li , U.K.
Cong Li, The Ohio State University, USA
Yalong Li, University of Tennessee, USA
Xiaodong Liang, University of Saskatchewan, Canada
Chang-Ming Liaw, Taiwan
Chang-Hua Lin, National Taiwan University of Science and Technology, Taiwan
Jin-Yuan Lin, National Taiwan University of Science and Technology, Taiwan

Zhigang Liu, Southwest Jiaotong University, China
Yiqi Liu, Northeast Forestry University, China
Chunhua Liu, City University of Hong Kong, China
Wenzhao Liu, Aalborg Universitet Teknisk, Denmark
Yitao Liu, Shenzhen University, China
Teng Liu, China
Yong Liu, Virginia Polytechnic Institute and State University, USA
Bo Liu, University of Tennessee, USA
Hanchao Liu, GE Global Research, USA
Jelena Loncarski, Uppsala Universitet, Sweden
Yong Lu, China
Fei Lu, Drexel University, USA
Xiaonan Lu, Temple University, USA
Yongjie Luo, China
Haoze Luo, Zhejiang University, China
Fang Luo, University of Arkansas, USA
Yu Miao, McMaster University, Canada
Rahul Mishra, Indian Institute of Technology Bombay, India
Soumya Mohapatra, Indian Institute of Technology Bombay, India
Vito Giuseppe Monopoli, Politecnico di Bari, Italy
Junpeng Ma, Sichuan University, China
Yiwei Ma, University of Tennessee, USA
Suman Maiti, Indian Institute of Technology Kharagpur—Calcutta Extension Centre, India
Ayan Mallik, University of Maryland at College Park, USA
Christina Malliou, Democritus University of Thrace, Greece
Mário Martins, Universidade Federal de Santa Maria, Brazil
Alinaghi Marzoughi, USA
Kouki Matsuse, Meiji University, Japan
Ryan McSheffery, The University of New Brunswick, Canada
Lexuan Meng, Aalborg University, Denmark
John Miller, Maxwell Technologies, USA
Behrooz Mirafzal, Kansas State University, USA
Santanu Mishra, Indian Institute of Technology Kanpur, India
Himanshu Misra, Indian Institute of Technology, Delhi, India
Giovanni Monopoli, Politecnico di Bari, Italy
Vitor Monteiro, Portugal
Morteza Moosavi, Texas A&M University, USA
Adson Moreira, Universidade Federal do Ceará, Brazil
Sam Morello, ARM EnerTech Associates, LLC, USA
Ali Mostaan, Iran
Khalegh Mozaffari, Northeastern University, USA
Duy-Dinh Nguyen, Aichi Institute of Technology, Japan
Wai Ng, University of Toronto, Canada
Anh Dũng Nguyen, National Taiwan University of Science and Technology, Taiwan
Stefano Nuzzo, University of Nottingham, U.K.
Shafiq Odhano, University of Nottingham, U.K.
Germán Oggier, Universidad Nacional de Río Cuarto, Argentina
Sungjae Ohn, Virginia Polytechnic Institute and State University, USA
Yuhei Okazaki, ABB Corporate Research Center Sweden, Sweden
D. de Souza Oliveira, Federal University of Ceará, Brazil
Koji Orikawa, Nagaoka University of Technology, Japan
Saban Ozdemir, University of Wisconsin Milwaukee, USA
Emre Ozkop, Karadeniz Technical University, Turkey
Burak Ozpineci, Oak Ridge National Laboratory, USA
Fu-Sheng Pai, National University of Tainan, Taiwan
Worapong Pairindra, King Mongkut's Institute of Technology Ladkrabang, Thailand
Worapong Pairindra, Valaya Alongkorn Rajabhat University, Thailand
Zhiguo Pan, Direct Drive Systems, USA
Jianyu Pan, The Ohio State University, Columbus, OH, USA
Gayadhar Panda, National Institute of Technology Meghalaya, India
Sungmin Park, Hongik University, South Korea
Hwa-Pyeong Park, Ulsan National Institute of Science and Technology, South Korea
Ki-Bum Park, ABB Corporate Research, Switzerland
Thiago Parreiras, Federal University of Minas Gerais, Brazil
Devendra Patil, University of Texas at Dallas, USA
Xuejun Pei, Huazhong University of Science and Technology, China
Fei Peng, McMaster University, Canada
Diego Perez-Estevez, Universidade de Vigo, Spain
Saad Pervaiz, Texas Instruments, Inc., USA
Matheepot Phattanasak, KMUTNB, Thailand
Teeraphon Phophongviwat, King Mongkut's Institute of Technology Ladkrabang, Thailand
Sabino Pipolo, University of Nottingham, U.K.
Vitor Pires, ESTSetubal/IPS, Portugal
Sompob Polmai, King Mongkut's Institute of Technology Ladkrabang, Thailand
Rohallah Pourbagher, Iran
Prajof Prabhakaran, Indian Institute of Technology Bombay, India
Zhongyi Quan, University of Alberta, Canada
Arief Noor Rahman, National Taiwan University of Science and Technology, Taiwan
Ramanujam Ramabhadran, General Electric Global Research, USA
Mandeep Rana, IIT Kanpur, India
Xiaoyong Ren, China
Ren Ren, University of Tennessee, USA
Bernardino Ricci, South Korea
Arthur Rosa, Universidade Federal de Minas Gerais, Brazil
Luca Rovere, University of Nottingham, U.K.
Alexander Ruderman, Nazarbayev University, Kazakhstan
Daniel Ryan, Australia
B Chandra Sekhar, Central Power Research Institute, India
Reza Sabzehgar, San Diego State University, USA
Mustafa ŞAHİN, RTE University, Turkey
Prasanth Sahu, University of North Carolina at Charlotte, USA
Suvendu Samanta, Concordia University, Canada
Hector Sarnago, University of Zaragoza, Spain
Filippo Savi, University of Nottingham—Ningbo China, China
Stefan Schröder, Danfoss, Germany
Jul-Ki Seok, Yeungnam University, South Korea
Mohammad Shadmand, Kansas State University, USA
Shuai Shao, Zhejiang University, China

Mohammad Sharifzadeh, Ecole de Technologie Superieure, Canada
Xu She, United Technologies Corporation, USA
Yanfeng Shen, University of Cambridge, U.K.
Chuan Shi, University of Maryland, USA
Yanjun Shi, Florida State University, USA
Mohsen Shid Pilehvar, Kansas State University, USA
Keeho Shin, Eaton, USA
Anshuman Shukla, IIT Bombay, India
Pierluigi Sidella, Politecnico di Bari, Italy
Italo Roger Silva, Universidade Federal Rural de Pernambuco, Brazil
Yam Siwakoti, Aalborg University, Denmark
Robert Smolenski, University of Zielona Gora, Poland
Cyril Staines, University of Malta, Malta
Marcio Stefanello, Fundação Universidade Federal do Pampa, Brazil
Fausto Stella, Politecnico di Torino, Italy
Kai Sun, Tsinghua University, China
Bingyao Sun, Virginia Polytechnic Institute and State University, USA
Teuvo Suntio, Tampere University, Finland
Warachart Suwan-ngam, King Mongkut's Institute of Technology Ladkrabang, Thailand
Mahesh Swamy, Yaskawa Electric America, USA
Mi Tang, University of Nottingham, U.K.
Vuttipon Tarateeraseth, Srinakharinwirot University, Thailand
Luca Tarisciotti, Universidad Andres Bello, Chile
Elisabetta Tedeschi, Norwegian University of Science and Technology, Norway
Phatiphat Thounthong, King Mongkut's University of Technology North Bangkok, Thailand
Hao Tian, University of Alberta, Canada
Fabio Tinazzi, University of Padova, Italy
Yeh Ting, DSO National Laboratories, Singapore
Abhilash Tirupathi, National Institute of Technology Warangal, India
Ambra Torreggiani, Universita degli Studi di Modena e Reggio Emilia, Italy
Andrea Tortella, Università degli Studi di Padova, Italy
Dominique Tournier, CALY Technologies, France
Ioannis Tsoumas, ABB Schweiz AG, Switzerland
Wencong Tu, Northwestern Polytechnical University, China
Hao Tu, North Carolina State University, USA
Masatoshi Uno, Japan
Rajesh Vasu, Indian Institute of Technology Kharagpur, India
Gerardo Vazquez Guzman, Instituto Tecnologico Superior De Irapuato, Mexico
Jakka Venkat, North Carolina State University, USA
Anjeet Verma, Indian Institute of Technology Delhi, India
Arnaud Videt, University of Lille, France
Adrien Voldoire, G2ELab, France
Marija Vujacic, Universita degli Studi di Bologna, Italy
Nimrod Vázquez, Instituto Tecnologico de Celaya, Mexico
Kui Wang, Tsinghua University, China
Yijie Wang, Harbin Institute of Technology, China
Jinyu Wang, China
Haoyu Wang, China
Zhiqiang Wang, Huazhong University of Science and Technology (HUST), China
Panbao Wang, China
Yanbo Wang, Aalborg University, Denmark
Dong Wang, The University of Hong Kong, Hong Kong
Fei Wang, Eindhoven University of Technology, Netherlands
J. M. Wang, Taiwan
Jun Wang, University of Bristol, U.K.
Jun Wang, Virginia Polytechnic Institute and State University, USA
Li Wang, Google, Inc., USA
Jens Weber, Technische Universität Dresden, Germany
Han Wei, The University of Hong Kong, Hong Kong
Huiqing Wen, China
Richardt Wilkinson, RMIT University, Australia
Heng Wu, Aalborg Universitet Teknisk, Denmark
S. T. Wu, National Formosa University, Taiwan
Bin Wu, University of Maryland, College Park, USA
Jinhui Xia, Dalian University of Technology, China
Yinglai Xia, Texas Instruments, Inc., USA
Chen Xu, Huazhong University of Science and Technology, China
Yizhe Xu, North Carolina State University, USA
Fei Xue, North Carolina State University, USA
Yingyi Yan, Virginia Tech, USA
Jiaqiang Yang, Zhejiang Unviersity, China
Dongsheng Yang, Aalborg University, Denmark
Nanfang Yang, Valeo SA, France
Shih-Chin Yang, National Taiwan University, Taiwan
Qichen Yang, USA
Yuchen Yang, USA
Zhe Yang, University of Tennessee, USA
Yousu Yao, Harbin Institute of Technology, China
Wenli Yao, Northwestern Polytechnical University, China
Tong Yao, Arizona State University, USA
Mohammad Rouhollah Yazdani, Iran
Kang Hyun Yi, Daegu Univ., South Korea
Anno Yoo, General Motors, USA
Hui Yu, North Carolina State University, USA
Zhao Yuan, China
Yang Yun, The University of Hong Kong, Hong Kong
Navid Zargari, Rockwell Automation, Canada
Hulong Zeng, Michigan State University, USA
Jianwu Zeng, Minnesota State University Mankato, USA
Fei Zhang, McGill University, Canada
Yiming Zhang, Tsinghua University, China
Guidong Zhang, Guangdong University of Technology, China
Lei Zhang, Shandong University, China
Xueguang Zhang, China
Shen Zhang, Georgia Institute of Technology, USA
Weimin Zhang, The University of Tennessee, Knoxville, USA
Li Zhang, University of Tennessee, USA
Meiqing Zhang, Huazhong University of Science and Technology, China
Shuoting Zhang, University of Tennessee, USA

Wen Zhang, University of Tennessee, USA
Zheyu Zhang, Clemson University, USA
Hua Zhang, Drexel University, USA
Hui Zhang, Tuskegee University, USA
Xinmin Zhang, Northeastern University, USA
Yechi Zhang, Huazhong University of Science and Technology, China
Zhemin Zhang, USA
Biao Zhao, China
Hui Zhao, USA
Sheng Zheng, Oak Ridge National Laboratory, USA
Yimin Zhou, Shenzhen Instituts of Advanced Technology, CAS, China
Dao Zhou, Aalborg University, Denmark
Jiuyang Zhou, National Tsing Hua University, Taiwan
Qianlai Zhu, Apple, Inc., USA
Guangqi Zhu, Eaton Corporation, USA
Saleh Ziaeinejad, USA

Power Electronics Devices and Components Committee

Chair: Ruxi Wang, GE Global Research, USA
Papers Review Chair: Enrico Santi, University of South Carolina, USA
Associate Editors:
Bruno Allard, INSA Lyon, France
Francesco Iannuzzo, Aalborg University, Denmark
Shashank Krishnamurthy, UTRC, USA
Richard Lukaszewski, Rockwell Automation, USA
Muhammad Nawaz, ABB Corporate Research, Sweden
Rostan Rodrigues, ABB, Inc., USA
Jean-Luc Schanen, G2ELab—Univ Grenoble Alpes, France
Shuo Wang, Virginia Tech, USA
Lixiang Wei, Rockwell Automation, USA
Reviewers:
Ali Abdollahi, University of Connecticut, USA
Ahmed Aly Saad Ahmed, Florida International University, USA
Bilal Akin, University of Texas at Dallas, USA
Markus Andresen, Christian-Albrechts-Universität zu Kiel, Germany
Parastoo Khademi Astaneh, Iran
Yvan Avenas, G2Elab, France
Oriol Aviñó Salvadó, IMB CNM, Spain
Behrooz Bahrani, Monash University, Australia
Ramchandra Bhosale, Indian Institute of Technology Bombay, India
Dr. Pakkiraiah Bhupanapati, Koneru Lakshmaiah University, India
Igor Blokhintsev, Eaton Corporation, USA
Aldo Boglietti, Politecnico di Torino, Italy
David Bowen, Laboratory for Physical Sciences, USA
Angus Bryant, University of Warwick, U.K.
Cyril Buttay, INSA Lyon, France
Mario Cacciato, University of Catania, Italy
Xiao Cao, Philips Lighting, USA
Alberto Castellazzi, University of Nottingham, U.K.
Cai Chen, Huazhong University of Science and Technology, China
Nan Chen, ABB Corporate Research, Sweden
Keith Corzine, Clemson University, USA
Han Cui, University of California, Los Angeles, USA
Allan Cupertino, Centro Federal de Educacao Tecnologica de Minas Gerais, Brazil
Sibylle Dieckerhoff, Technical Unversity of Berlin, Germany
Oindrilla Dutta, City College of New York, USA
Sana Elhidaoui, Ecole Superieure de Technologie Safi, Morocco
Ahmed Elsayed, The Boeing, USA
Abbas Fardoun, Al Maaref University, Lebanon
Chao Fei, USA
Minfan Fu, ShanghaiTech University, China
Rimon Gadelrab, Virginia Polytechnic Institute and State University, USA
Lakshmi Reddy GopiReddy, University of Tennessee—Knoxville, USA
Ben Guo, United Technologies Research Center, USA
Alex Hanson, Massachusetts Institute of Technology, USA
Li He, Hunan University, China
Dongbin Hou, Virginia Polytechnic Institute and State University, USA
Ala Hussein, University of Central Florida, USA
Nadir Idir, University of Lille, France
Pierre-Olivier Jeannin, INPG, France
Larry Juang, Southern California Edison, USA
Venkata Ravi Kishore Kanamarlapudi, Nanyang Technological University, Singapore
Naoyuki Kurita, Hitachi, Ltd., Japan
Yongduk Lee, United Technologies Research Center, USA
Pierre Lefranc, G2Elab, France
Roger Lawrence, USA
Jia-You Lee, National Cheng Kung University, Taiwan
Mingxiao Li, Technical University of Denmark, Denmark
Yongjun Li, University of California Berkeley, USA
Yiming Li, University of Florida, USA
Marco Liserre, Christian-Albrechts University, Germany
Hongpeng Liu, Harbin Institute of Technology, China
Fei Lu, Drexel University, USA
Richard Lukaszewski, Rockwell Automation, USA
Fang Luo, University of Arkansas, USA
Nguyen Mai, Viet Nam
Saijun Mao, GE Global Research, China
Zichen Miao, Virginia Polytechnic Institute and State University, USA
Rajib Mikail, ABB, USA
Anibal Morales, Universidad Catolica de la Santisima Concepcion, Chile
Herve Morel, INSA Lyon, France
Salvatore Musumeci, University of Catania, Catania, Italy
Jose Ortiz Gonzalez, University of Warwick, U.K.
Vladimir Popok, Aalborg Universitet Teknisk, Denmark
Utkarsh Raheja, ABB, Inc., USA
Michele Riccio, Italy
Mohamad Salameh, Illinois Institute of Technology, USA
Swati Savaliya, Indian Institute of Technology Bombay, India
Shatakshi Sharma, Indian Institute of Technology Delhi, India
Xu She, United Technologies Corporation, USA

Prasanth Thummala, Flux A/S, Denmark
João Pedro Trovão, Université de Sherbrooke, Canada
Colin Tschida, ABB US Corporate Research Center, USA
Saeed Ul Haq, GE Energy, Canada
Li Wang, Google, Inc., USA
Thilini Wickramasinghe, EZUS Lyon, France
Steve Williams, Co-op Refinery Complex, Canada
Zhuo Yang, University of Texas at Dallas, USA
Juntao Yao, University of Florida, USA
Boyi Zhang, University of Florida, USA
Yi Zhang, California ISO, USA
Yingjie Zhang, University of Florida, USA
Zhaoyan Zhang, China
Ruxiu Zhao, Seres Automotive, USA

Renewable and Sustainable Energy Conversion Systems Committee

Chair: Yilmaz Sozer, The University of Akron, U.S.A.
Papers Review Chair: Adel Nasiri, UW-Milwaukee, USA
Associate Editors:
Necmi Altin, Gazi University, Faculty of Technology, Turkey
Norma Anglani, University of Pavia, Italy
Mohamed Badawy, San Jose State University, USA
Paul Barendse, University of Cape Town, South Africa
Woojin Choi, Soongsil University, South Korea
Afshin Izadian, Purdue School of Engineering and Technology, USA
Dinesh Kumar, Danfoss Drives A/S, Denmark
Ke Ma, Aalborg University, Denmark
Behrooz Mirafzal, Kansas State University, USA
Saban Ozdemir, University of Wisconsin Milwaukee, USA
Mohammad Rashidi, USA
Nathan Weise, Marquette University, USA
Reviewers:
Hareesh A., Government Engineering College Thrissur, India
Ali Ajder, Yildiz Teknik Universitesi, Turkey
Rasoul Akbari, Indiana University-Purdue University Indianapolis, USA
Fahad Alhuwaishel, Texas A&M Engineering, USA
T Abhiram, Osmania University, India
Sayan Acharya, North Carolina Central University, USA
Moses Acquah, University of Ghana, Ghana
Aswad Adib, Kansas State University, USA
Alok Agrawal, Motilal Nehru National Institute of Technology, India
Anish Ahmad, Indian Institute of Technology (B.H.U.) Varanasi, India
Khaled Ahmed, University of Aberdeen, U.K.
Hadi Akbari, University of Wisconsin Milwaukee, USA
Oluwaseun Akeyo, University of Kentucky, USA
M. R. Alam, Australia
Mahmood Alharbi, University of Central Florida, USA
Syed Huzaif Ali, University of Texas at Dallas, USA
Abdualah Aljankawey, The University of New Brunswick, Canada
Necmi Altin, Gazi University, Turkey
Fernando Amaral, Universidade Federal de Minas Gerais, Brazil
Bruno André, Schneider Electric Energy Automation, France
Anup Anurag, North Carolina State University, USA
Arash Anzalchi, Florida International University, USA
Diego Arcos-Aviles, Universidad de las Fuerzas Armadas, Ecuador
Vijay As, Indian Institute of Technology Bombay, India
Erdem Asa, New York University, USA
Panagiotis Asimakopoulos, CERN, Switzerland
Agasthya Ayachit, Wright State University Center for Global Health, USA
Mahdi Azizi, Iran
Canras Batunlu, Middle East Technical University, Turkey
B. Chitti Babu, Indian Institute of Information Technology Design and Manufacturing, India
Hamid Reza Baghaee, Amirkabir University of Technology, Iran
Robert Balog, Texas A&M University, USA
Salam Bani Ahmed, Eaton Corporation, USA
Sertac Bayhan, Gazi University, Turkey
Ranjan Behera, Indian Institution of Technology Kanpur, India
Joseph Benzaquen, Kansas State University, USA
Pallavi Bharadwaj, Indian Institute of Science, Bangalore, India
Pakkiraiah Bhupanapati, Koneru Lakshmaiah University, India
Nasir Boakye-Boateng, University of Tennessee at Chattanooga, USA
Ion Boldea, Politehnica University of Timisoara, Romania
Jessica Boles, Massachusetts Institute of Technology, USA
Jakson Bonaldo, Federal University of Mato Grosso, Brazil
Tiago Busarello, Universidade Federal de Santa Catarina, Brazil
Bharatiraja C., SRM University, India
Dong Cao, North Dakota State Unviersity, USA
Jianwu Cao, Enersys, Inc., USA
José Cardoso, Escola Politecnica Da Usp, Brazil
En-Chih Chang, I-Shou University, Taiwan
Fang Chen, Virginia Tech, USA
He Cheng, China
Sungyun Choi, Korea University, South Korea
Woojin Choi, Soongsil University, South Korea
Alessio Clerici, Politecnico di Milano, Italy
Valentina Cosentino, Universita degli Studi di Palermo, Italy
Cecília Costa, Universidade Federal de Campina Grande, Brazil
Laís Crispino, Universidade Federal do Rio de Janeiro, Brazil
Pooya Davari, Aalborg University, Denmark
Masoud Davari, Georgia Southern University, USA
Francis Dawson, University of Toronto, Canada
Hossein Dehghani Tafti, Nanyang Technological University, Singapore
Zhaohao Ding, North China Electric Power University, China
David Dorrell, University of KwaZulu-Natal—Howard College Campus, South Africa
Maharajan Duraisamy, USA
Sumit Dutta, John Deere Electronics Solutions, USA
Ahmad El Shafei, University of Wisconsin Milwaukee, USA
Essam S. Elsahwi, University of Toronto, Canada
Rachid Errouissi, The Petroleum Institute, United Arab Emirates
Mohamed Lamine Fadda, Université 8 Mai 1945 Guelma, Algeria
Mohsen Farbood, Iran

Fariba Fateh, USA
Abbas Fattahi, Iran
Xianyong Feng, University of Texas System, USA
Jonatan R. Fischer, Argentina
Ahmed Gad, Ain Shams University, Egypt
Anil Gambhir, Indian Institute of Technology Kanpur, India
Congzhe Gao, Beijing Institute of Technology, China
Chuanhou Gao, Zhejiang University, China
Subhrasankha Ghosh, Indian Institute of Technology Kharagpur, India
Ghanshyamsinh Gohil, University of Texas at Dallas, USA
Cheng Gong, Georgia Institute of Technology, USA
Gustavo Gontijo, Universidade Federal do Rio de Janeiro, Brazil
Cristina Gonzalez Moral, Universidad de Oviedo, Spain
Cristina Gonzalez-Moran, University of Oviedo, Spain
Giorgio Graditi, ENEA Agenzia Nazionale per Le Nuove Tecnologie l'Energia e lo Sviluppo Economico Sostenibile, Italy
Paolo Guglielmi, Politecnico di Torino, Italy
Yan Guo, China
Tapas Halder, Kalyani Government Engineering College, India
Pengcheng Han, Southwest Jiaotong University, China
Ying Han, China
Gia Yo Han, National Taipei University of Technology, Taiwan
Philip Hart, USA
Hany Hasanien, Ain Shams University, Egypt
Chengyuan He, University of Central Florida, USA
Sheikh Jakir Hossain, University of North Carolina at Charlotte, USA
Majid Hosseinpour, University of Mohaghegh Ardabili, Iran
Dongbin Hou, Virginia Polytechnic Institute and State University, USA
Xiaosong Hu, Chongqing University, China
Haibing Hu, Nanjing University of Aeronautics and Astronautics, China
Tung-Yung Huang, Southern Taiwan University of Science and Technology, Taiwan
Vandana Jain, Indian Institute of Technology Delhi, India
Garry Jean-pierre, University of Wisconsin Milwaukee, USA
Dong Jiang, Huazhong University of Science and Technology, China
Zhenhua Jiang, USA
Zheming Jin, Aalborg Universitet, Denmark
Vinod John, IISc, India
Ramin Katebi, Marquette University, USA
Korhan Kayisli, Nisantasi University, Turkey
Irfan Khan, Texas A&M University System, USA
Pardis Khayyer, USA
Mohammad Khoshjahan, Texas A&M University College Station, USA
Taehyung Kim, University of Michigan-Dearborn, USA
Phillip Kollmeyer, McMaster University, Canada
Te-Tien Ku, National Kaohsiung University of Applied Sciences, Taiwan
Abhijit Kulkarni, Indian Institute of Science, India
Onkar Kulkarni, India
Rajan Kumar, National Institute of Technology Hamirpur, India
Ming-Tse Kuo, National Taiwan University of Science and Technology, Taiwan
Sangshin Kwak, South Korea
Yongduk Lee, United Technologies Research Center, USA
Chun Sing Lai , U.K.
John Lam, York University, Canada
George Lazaroiu, University Politehnica of Bucharest, Romania
Paolo Lazzeroni, Istituto Superiore sui Sistemi Territoriali per l'Innovazione, Italy
Kyo-Beum Lee, Ajou University, South Korea
Chia-Tse Lee, National Tsing Hua University, Taiwan
Zbigniew Leonowicz, Wroclaw University of Science and Technology, Poland
Xingshuo Li, Nanjing Normal University, China
Zhiyi Li, Illinois Institute of Technology, USA
Xiaodong Liang, University of Saskatchewan, Canada
Alessandro Lidozzi, Universita degli Studi Roma Tre, Italy
Chunhua Liu, City University of Hong Kong, China
Yitao Liu, Shenzhen University, China
Shiue-Der Lu, National Chin-Yi University of Technology, Taiwan
Vita Lystianingrum, Institut Teknologi Sepuluh Nopember, Indonesia
Shadab Murshid, Indian Institute of Technology Delhi, India
Sachin Madhusoodhanan, North Carolina State University, USA
Ramkrishan Maheshwari, University of Southern Denmark, Denmark
Hamza Makhamreh, Eastern Mediterranean University, Cyprus
Keith Malmedal, NEI Electric Power Engineering, USA
Hayati Mamur, Cankiri Karatekin Universitesi, Turkey
Sajjad Mani, Iran
Davis Martinez, Electric Power Research Institute, USA
Javier Martinez-Roman, Universitat Politecnica de Valencia, Spain
Alinaghi Marzoughi, USA
Jorge Massing, Brazil
Jinhao Meng, Northwestern Polytechnical University, China
Mohammadreza Miranbeigi, Georgia Institute of Technology, USA
Adson Moreira, Universidade Federal do Ceará, Brazil
José De Moura, State University of Maranhão, Brazil
Hamed Nademi, ABB, Norway
Herminio Oliveira Filho, Universidade da Integracao Internacional da Lusofonia Afro-Brasileira, Brazil
Selim Oncu, Karabuk University, Turkey
Koji Orikawa, Nagaoka University of Technology, Japan
Saban Ozdemir, University of Wisconsin Milwaukee, USA
Diwaker Pathak, Netaji Subhas Institute of Technology, India
Sanjib Kumar Panda, National University of Singapore, Singapore
Nick Peter Papanikolaou, Greece
Jong-Hu Park, South Korea
Ashish Patel, Birla Institute of Technology and Science, India
Hiren Patel, Sarvajanik College of Engineering and Technology, India
Luigi Pellegrino, Materials and Generation Technologies Department, Italy

Saeed Peyghami, Aalborg University, Denmark
Md. Rahman, University of Alberta, Canada
Tanvir Rahman, McGill University, Canada
Davide Raimondo, University of Pavia, Italy
Saravanakumar Rajendran, India
Ramanujam Ramabhadran, General Electric Global Research, USA
Li Ran, University of Warwick, U.K.
Ramtin Rasoulinezhad, University of Western Ontario, Canada
Vaishnavi Ravi, Indian Institute of Technology Madras, India
Eduardo Redondo-Iglesias, IFSTTAR, France
Bernardino Ricci, South Korea
Christian Rojas, Universidad Tecnica Federico Santa Maria, Chile
Marek Rylko, SMA Magnetics Sp. z o.o., Poland
Sepehr Saadatmand, Missouri University of Science and Technology, USA
Reza Sabzehgar, San Diego State University, USA
Prasanth Sahu, University of North Carolina at Charlotte, USA
Hiranmay Samanta, Indian Institute of Engineering Science and Technology, India
B Sertac, Texas A&M University at Qatar, Qatar
Mohammad Shadmand, Kansas State University, USA
Santosh Sharma, Eaton Corporation, India
Jie Shi, University of Jinan, China
Mohsen Shid Pilehvar, Kansas State University, USA
Saurabh Shukla, IIT Delhi, India
Rajeev Singh, IIT (BHU), India
Akanksha Singh, National Renewable Energy Laboratory, USA
Juan Sebastián Solís Chaves, Brazil
Xiaoqing Song, North Carolina State University, USA
Uthane Supatti, Kasetsart University, Thailand
Jon Are Suul, Norwegian University of Science and Technology, Norway
Warachart Suwan-ngam, King Mongkut's Institute of Technology Ladkrabang, Thailand
Elaheh Taherianfard, Iran
Ahmed Thabet Mohamed, Aswan University, Egypt
Yanjun Tian, North China Electric Power University—Baoding, China
Taha Selim Ustun, Carnegie Mellon University, USA
Kanakesh V K, National University of Singapore, Singapore
Krishna Vasudevan, IIT Madras, India
Anjeet Verma, Indian Institute of Technology Delhi, India
Arun Verma, Indian Institute of Technology, Delhi, India
István Vokony, Budapesti Muszaki es Gazdasagtudomanyi Egyetem Villamosmernoki es Informatikai Kar, Hungary
Marija Vujacic, Universita degli Studi di Bologna, Italy
Shashank Vyas, The Energy and Resources Institute, India
Benfei Wang, Sun Yat-Sen University, China
Weimin Wu, Shanghai Maritime University, China
Zhenxiong Wang, China
Dong Wang, The University of Hong Kong, Hong Kong
Fei Wang, Eindhoven University of Technology, Netherlands
Yu Wang, Nanyang Technological University, Singapore
Li Wang, National Cheng Kung University, Taiwan
Yu Wu, Universite de Technologie de Belfort-Montbeliard, France
Zhongze Wu, University of Bath, U.K.
Yuheng Wu, University of Arkansas Fayetteville, USA
Zhichao Wu, Eaton, USA
Jinhui Xia, Dalian University of Technology, China
Yinglai Xia, Texas Instruments, Inc., USA
Shunlong Xiao, Texas A&M University, USA
Wen Xu, Australia
Qianming Xu, China
Chen Xu, Huazhong University of Science and Technology, China
Qianwen Xu, Nanyang Technological University, Singapore
Yizhe Xu, North Carolina State University, USA
Yongheng Yang, Aalborg University, Denmark
Nien-Che Yang, National Taiwan University of Science and Technology, Taiwan
Zhuo Yang, University of Texas at Dallas, USA
Qichen Yang, USA
Zhilei Yao, Nanjing Uinversity of Aeronautics and Astronautics, China
Juntao Yao, University of Florida, USA
Mehmet Yesilbudak, Nevsehir Haci Bektas Veli University, Turkey
Hung-Yi Yu, Taiwan Power Company, Taiwan
Emrah Zerdali, Niğde Ömer Halisdemir University, Turkey
Qianzhi Zhang, Iowa State University, USA
Weimin Zhang, The University of Tennessee, Knoxville, USA
Xinmin Zhang, Northeastern University, USA
Yonglei Zhang, China
Ben Zhao, Northwestern Polytechnical University, China
Biao Zhao, China
Dao Zhou, Aalborg University, Denmark
Daming Zhou, Univ. Bourgogne Franche-Comte / UTBM / FEMTO-ST, France
Haihua Zhou, USA
Yinxiao Zhu, University of Liverpool, U.K.
Guangqi Zhu, Eaton Corporation, USA
Ke Zou, Ford Motor Company, USA

Transportation Systems Committee

Chair: Mohammad Islam, USA
Papers Review Chair: Bulent Sarlioglu, University of Wisconsin-Madison, USA
Associate Editors:
Bilal Akin, University of Texas at Dallas, USA
Veda Prakash Galigekere, Oak Ridge National Laboratory, USA
Jiangbiao He, University of Kentucky, USA
Rakib Islam, Dura Automotive, USA
Mithat Kisacikoglu, University of Alabama, USA
Yingjie Li, USA
Jason Pries, Oak Ridge National Laboratory, USA
Reviewers:
Mahmoud Abdallah, South Valley University, Egypt
Sayan Acharya, North Carolina Central University, USA
Kelvin Anoh, University of Bolton, U.K.

Saeed Anwar, The University of Tennessee, Knoxville, USA
AKM Arafat, University of Akron, USA
Ander Avila, Ikerlan Technological Research Centre, Spain
Agasthya Ayachit, Wright State University Center for Global Health, USA
Rohit Baranwal, University of Minnesota, USA
Manuele Bertoluzzo, University of Padova, Italy
Gerd Bramerdorfer, Johannes Kepler University Linz, Austria
Ramona Buckreus, University of Alabama, USA
Minyu Cai, Cummins, Inc., USA
Claudio Carretero, University of Zaragoza, Spain
Andrea Cavagnino, Politecnico di Torino, Italy
Massimo Ceraolo, Università di Pisa, Italy
Parikshith Channegowda, United Technologies Research Center, USA
Gavin Chiu, Texas A and M University College Station, USA
Yew Chuan Chong, Motor Design, Ltd., U.K.
Dhiman Chowdhury, University of South Carolina, USA
Sajad Chowdhury, Oak Ridge National Laboratory, USA
Vincenzo Cirimele, Politecnico di Torino, Italy
Michael D'Antonio, University of Maryland, College Park, USA
Jiejian Dai, Monolithic Power Systems, Inc., USA
Masoud Davari, Georgia Southern University, USA
Franco Degioanni, The University of British Columbia, Canada
Luigi Pio Di Noia, University of Naples Federico II, Italy
Hassan Eldeeb, Florida International University, USA
Nuh Erdogan, University College Cork Coastal and Marine Research Centre, Ireland
Babak Fahimi, University of Texas at Dallas, USA
Poria Fajri, University of Nevada Reno, USA
Musavi Fariborz, WSU, USA
Alireza Fatemi, General Motors Corporation, USA
Huthaifa Flieh, University of Wisconsin Madison, USA
Giovanni Maria Foglia, Politecnico di Milano, Italy
Kevin Frankforter, University of Wisconsin—Madison, USA
Baoyun Ge, C-Motive Technologies, Inc., USA
Stefan Grubic, GE Global Research, USA
Saeid Haghbin, Elbind Elektronik AB, Sweden
Salman Harasis, University of Akron, USA
Iftekhar Hasan, The University of Akron, USA
Xiaosong Hu, Chongqing University, China
Tausif Husain, BorgWarner, Inc., USA
Hao Jiang, USA
Matthew Johnson, Texas A&M University, USA
Larry Juang, Southern California Edison, USA
Gaurav Kalra, The University of Auckland, New Zealand
Utkarsh Kavimandan, Tennessee Technological University, USA
Quirin Kellner, University of Warwick, U.K.
Ju Hyung Kim, Virgin Hyperloop One, USA
Phillip Kollmeyer, McMaster University, Canada
Haoran Li, Nanjing University of Aeronautics and Astronautics, China
Dawei Li, Huazhong University of Science and Technology, China
Ye Li, University of Wisconsin-Madison, USA
Silong Li, Ford Motor Company, USA
Junfeng Liu, South China University of Technology, China
Chunhua Liu, City University of Hong Kong, China
Wenbo Liu, University of Wisconsin Madison, USA
Yiqi Liu, John Deere Electronics Solution, USA
Shaofeng Lu, South China University of Technology, China
Jiangheng Lu, University of Maryland, USA
Ming Lu, Monolithic Power Systems, Inc., USA
Cong Ma, University of Nebraska-Lincoln, USA
Siddharth Mehta, North Carolina State Univetsity, USA
Jinhao Meng, Northwestern Polytechnical University, China
Amirhossein Moeini, University of Florida, USA
Anibal Morales, Universidad Catolica de la Santisima Concepcion, Chile
Shubajyoti Mukherjee, USA
Francisco J. Márquez-Fernández, Lunds Universitet Tekniska Hogskola, Sweden
Hung-Yen Ou Yang, SERES EV, USA
Devendra Patil, University of Texas at Dallas, USA
Gabriel Pinto, Universidade do Minho, Portugal
Shahinur Rahman, University of Alabama System, USA
Anushree Ramanath, University of Minnesota Twin Cities, USA
Yanxia Shen, Jiangnan University, China
Raed Saasaa, Murata Power Solutions, Canada
Reza Sabzehgar, San Diego State University, USA
Aparna Saha, Nexteer Automotive, USA
Tarak Saha, Utah State University, USA
Subham Sahoo, Aalborg Universitet, Denmark
Mohamad Salameh, Illinois Institute of Technology, USA
Minghao Sheng, Intersil Corporation, USA
Ruoyun Shi, Canada
Yuying Shi, Robert Bosch LLC, USA
Stjepan Stipetic, University of Zagreb, Croatia
Seyedfoad Taghizadeh, Macquarie University, Australia
Emin Ucer, The University of Alabama, USA
Masatoshi Uno, Japan
Bhanu Vankayalapati, University of Texas at Dallas, USA
Eric Velander, Bombardier Transportation Sweden AB, Sweden
Yifeng Wang, Tianjin University, China
Han Wei, The University of Hong Kong, Hong Kong
Huiqing Wen, China
Rafał Wojda, ABB Poland, Poland
Zhongze Wu, University of Bath, U.K.
Fan Wu, Marquette University, USA
Rong Xu, University of Texas at Austin, USA
Yang Xu, Ford Motor Company, USA
Zhuo Yang, University of Texas at Dallas, USA
Tong Yao, Arizona State University, USA
Weijun Yin, GE Global Research, USA
Rong Zeng, Oak Ridge National Laboratory, USA
Siliang Zhang, Zhejiang University, China
Zhe Zhang, University of Nebraska-Lincoln, USA
Zhi-Liang Zhang, Nanjing University of Aeronautics & Astronautics, China
Ruxiu Zhao, Seres Automotive, USA
Ruxiu Zhao, USA
Sheng Zheng, Oak Ridge National Laboratory, USA

Daming Zhou, Univ. Bourgogne Franche-Comte / UTBM / FEMTO-ST, France
Guangqi Zhu, Eaton Corporation, USA
Shenli Zou, University of Maryland, USA

Manufacturing Systems Development and Applications Department

Chair: Marco Dalla Costa, UFSM, Brazil
Vice-Chair—Papers: Chair: Ahmed Rubaai, Howard University, USA

Electrostatic Processes Committee

Chair: Maciej Noras, University of North Carolina at Charlotte, USA
Papers Review Chair: Sheesha Jayaram, University of Waterloo, Canada

Associate Editors:

Kazimierz Adamiak, Univ. of Western Ont., Canada
Lucian Dascalescu, University of Poitiers, France
Shesha Jayaram, University of Waterloo, Canada
Akira Mizuno, Toyohashi University of Technology, Japan
Maciej Noras, University of North Carolina at Charlotte, USA
Masaaki Okubo, Osaka Prefecture University, Japan
Jamal Seyed-Yagoobi, Worcester Polytechnic Institute, USA
Rajesh Sharma, Arkansas State University, USA

Reviewers:

Masato Adachi, DLR, Germany
Chitral Angammana, Nanorial Technologies, Ltd., Canada
Reinhold Bayerer, None, Germany
Sean Broderick, Powell Industries, USA
Thiago Burgo, Universidade Federal de Santa Maria, Brazil
Alexander Castaneda, Worcester Polytechnic Institute, USA
Peter Castle, Western University, Canada
Lucian Dascalescu, University of Poitiers, France
David Dean, University of Rochester Medical Center, USA
Miroslaw Dors, Institute of Fluid-Flow Machinery, Poland
Marius Dumitran, University Politehnica of Bucharest, Romania
Ran Jia, China
Ryszard Kacprzyk, Poland
Hiroyuki Kawamoto, Waseda Daigaku, Japan
Ladislav Konopka, Vysoka Skola Chemicko-Technologicka v Praze, Czech Republic
Takuya Kuwahara, Nippon Institute of Technology, Japan
Loong Lim, University of Guelph, Canada
Suqi Liu, The University of Akron, USA
Zdenko Machala, Slovakia
Shuji Matsusaka, Kyoto University, Japan
Karim Medles, University Djillali Liabès Sidi Bel Abbès, Algeria
Sankarsan Mohapatro, Indian Institute of Technology Bhubaneswar, India
Matti Murtomaa, University of Turku, Finland
Maciej Noras, University of North Carolina at Charlotte, USA
Nathaniel O'Connor, Worcester Polytechnic Institute, USA
Takayuki Ohshima, Gunma Univ., Japan
B.S. Rajanikanth, Indian Institute of Science, India
Jamal Seyed-Yagoobi, Worcester Polytechnic Institute, USA
Kazuo Shimizu, Shizuoka University, Japan
A.D. Srinivasan, S, India
Koichi Takaki, Iwate University, Japan
Kazunori Takashima, Toyohashi University of Technology, Japan
Zoltán Ádám Tamus, Budapest University of Technology and Economics, Hungary
Hiro Tsubone, Ariake National College of Technology, Japan
Bowen Wang, State Key Laboratory of Disaster Prevention & Reduction for Power Grid, China
Keping Yan, China
Mengqiao Yang, Worcester Polytechnic Institute, USA
Hulie Zeng, Tokyo Metropolitan University, Japan
Noureddine Zouzou, University of Poitiers, France
Akinori Zukeran, Japan

Industrial Automation and Control Committee

Chair: Akshay Kumar Rathore, Concordia University, Canada
Papers Review Chair: Sukumar Kamalasadan, University of North Carolina at Charlotte, USA

Associate Editors:

Ahmed Al-Durra, Khalifa University of Science Technology, United Arab Emirates
Mahshid Amirabadi, Northeastern University, USA
Balanthi Abdul Beig, Khalifa University of Science Technology, United Arab Emirates
Suryanarayana Doolla, Indian Institute of Technology Bombay, India
Deepak Fulwani, Indian Institute of Technology Jodhpur, India
Fei Gao, University of Technology of Belfort-Montbeliard, France
Hua Geng, China
Lijun He, GE Global Research Center, USA
Mahesh Illindala, Ohio State University, USA
Sukumar Kamalasadan, University of North Carolina at Charlotte, USA
Jingbo Liu, Rockwell Automation, USA
Santanu Mishra, Indian Institute of Technology Kanpur, India
Kashem Muttaqi, University of Wollongong, Australia
Xuewei Pan, Harbin Institute of Technology, China
Akshay Rathore, Concordia University, Canada
Saleh Saleh, University of New Brunswick, Canada
Anurag Srivastava, Washington State University, USA
Mohammad Uddin, Lakehead University, Canada

Reviewers:

Roghieh A.Biroon, Clemson University, USA
Djerioui Ali, Université de Nantes, France
Raul Vitor Arantes Monteiro, Universidade Federal de Mato Grosso, Brazil
Mostafa Abarzadeh, Ecole de technologie superieure, Canada
Maysam Abbasi, Urmia University, Iran
Guirguis Z. Abdelmessih, University of Oviedo, Spain
T Abhiram, Osmania University, India
Ezzidin Hassan Aboadla, International Islamic University Malaysia, Malaysia
Amevi Acakpovi, Ghana
Sayan Acharya, North Carolina Central University, USA

Moses Acquah, University of Ghana, Ghana
Neha Adhikari, Indian Institute of Technology Delhi, India
Aswad Adib, Kansas State University, USA
Mehran Adibzadeh, QIAU, Iran
Ehsan Afshari, Northeastern University, USA
Mohammed Agamy, University at Albany, USA
Vivek Agarwal, Indian Institute of Technology-Bombay, India
Nor Baizura binti Ahamad, Aalborg Universitet Teknisk, Denmark
Anish Ahmad, Indian Institute of Technology (B.H.U.) Varanasi, India
Muhammad Ahmad, Universitet Innopolis, Russian Federation
Khaled Ahmed, University of Aberdeen, U.K.
Rufus Akande, Osun State University, Nigeria
Hadi Akbari, University of Wisconsin Milwaukee, USA
Sai Akhil Reddy Konakalla, University of California San Diego, USA
Ahmed Al-Durra, Khalifa University of Science Technology, United Arab Emirates
Maher Al-Greer, Teesside University, U.K.
Kazi Alam, Australia
Mahmood Alharbi, University of Central Florida, USA
Abdualah Aljankawey, The University of New Brunswick, Canada
Helmi Aloui, University of Sfax, Tunisia
Necmi Altin, Gazi University, Turkey
Uiliam Nelson Alves, IFPR -Federal Institute of Education, Science and Technology of Paraná, Brazil
Mohammad Amin, Norwegian University of Science and Technology, Norway
Zheng An, Georgia Institute of Technology, USA
António Andrade, Universidade Federal de Santa Maria, Brazil
Ragusa Antonella, CNR, Italy
Diego Arcos-Aviles, Universidad de las Fuerzas Armadas, Ecuador
Vijay As, Indian Institute of Technology Bombay, India
Roberto Asano, Spain
Abdakarim Awad, Birzeit University, Palestine, State of
M A Awal, North Carolina State University, USA
Sima Aznavi, University of Nevada Reno, USA
Rajdeep Banerjee, India
Apekshit Bhowate, Visvesvaraya National Institute of Technology, India
Manef Bourogaoui, Laboratoire des Systèmes Electriques/Ecole Nationale d'Ingénieurs de Tunis, Tunisia
Faouzi Bacha, University of Tunis, Tunisia
Hamid Reza Baghaee, Amirkabir University of Technology, Iran
Nooshin Bahador, Lorestan University, Iran
Haofeng Bai, Aalborg University, Denmark
Hao Bai, Universite de Technologie de Belfort-Montbeliard, France
Hua Bai, University of Tennessee, USA
Sandeep Banerjee, DTU, Delhi, India
Salam Bani Ahmed, Eaton Corporation, USA
Mesut Baran, NC State U, USA
Khan Baseem, Hawassa University Institute of Technology, Ethiopia
Najmeh Bazmohammadi, K. N. Toosi University of Technology, Iran
Tasneem Begum, University of Wollongong, Australia
Aman Behal, USA
Siavash Beheshtaein, Aalborg University, Denmark
Satish Belkhode, India
Mohammed Benidris, University of Nevada Reno, USA
Abdeldjabar Benrabah, Harbin Institute of Technology, China
Pallavi Bharadwaj, Indian Institute of Science, Bangalore, India
Gautami Bhatt, Bechtel Oil, Gas & Chemicals, USA
Subhadeep Bhattacharya, Canada
Rojan Bhattarai, University of North Carolina at Charlotte, USA
Ramchandra Bhosale, Indian Institute of Technology Bombay, India
Pakkiraiah Bhupanapati, Koneru Lakshmaiah University, India
G. Bhuvaneswari, Indian Institute of Technology Delhi, India
Ali Bidram, University of New Mexico, USA
Mert Serdar Bilgin, Ozyegin University, Turkey
Robin Bisht, University of North Carolina at Charlotte, USA
Nasir Boakye-Boateng, University of Tennessee at Chattanooga, USA
Chiara Boccaletti, Sapienza University of Rome, Italy
David Boillat, Switzerland
Ion Boldea, Politehnica University of Timisoara, Romania
Jessica Boles, Massachusetts Institute of Technology, USA
Alberto Bolzoni, Politecnico di Milano, Italy
Konstantin Boynov, Eindhoven University of Technology, Netherlands
Danilo Brandao, Universidade Federal de Minas Gerais, Brazil
Tiago Busarello, Universidade Federal de Santa Catarina, Brazil
Minyu Cai, Cummins, Inc., USA
Enver Candan, University of Illinois at Urbana-Champaign, USA
E.A. Cano-Plata, Universidad Nacional de Colombia, Colombia
Lingling Cao, Harbin Institute of Technology, Shenzhen, China
Dong Cao, North Dakota State Unviersity, USA
Wenchao Cao, The University of Tennessee, Knoxville, USA
Jianwu Cao, Enersys, Inc., USA
Cedric Caruana, University of Malta, Malta
Andrea Cavallini, University of Bologna, Italy
David Celeita Rodriguez, Universidad de los Andes, Colombia
Merlin Chai, National University of Singapore, Singapore
Rahul Chakraborty, North Carolina State University, USA
En-Chih Chang, I-Shou University, Taiwan
Ye-Then Chang, Taiwan
Urvashi Chauhan, Netaji Subhas Institute of Technology, India
Fang Chen, Virginia Tech, USA
Gang Chen, University of California, Davis, USA
Siyuan Chen, NC State University, USA
Fangzhou Cheng, University of Nebraska-Lincoln, USA
Hsuan-Chang Chiang, National United University, Taiwan
Rajasekharareddy Chilipi, The Petroleum Institute, United Arab Emirates
Amin Chitsazan, University of Nevada, Reno, USA
M. Y. Cho, Kaohsiung University of Applied Sciences, Taiwan
Sungyun Choi, Korea University, South Korea
Abhijit Choudhury, Concordia University, Canada

Chia-Chi Chu, National Tsing Hua University, Taiwan
Ying-Chun Chuang, Kun Shan University, Taiwan
Md. Muminul Chy, McGill University, Canada
Gonzalo Constante-Flores, Ohio State University, USA
Pedro Coronado, Instituto Tecnologico y de Estudios Superiores de Monterrey, Mexico
NingYi Dai, University of Macau, Macao
Moumita Das, IIT Bombay, India
Ratul Das, University of Colorado Boulder, USA
Masoud Davari, Georgia Southern University, USA
Appa Rao Dekka, Lakehead University, Canada
Fujin Deng, Southeast University, China
Satadru Dey, California Institute of Technology, USA
Youshuang Ding, Tsinghua University, China
David Dorrell, University of KwaZulu-Natal—Howard College Campus, South Africa
Xiong Du, Chongqing University, China
Félix Dubuisson, Canada
Amarendra Edpuganti, Khalifa University of Science and Technology—Masdar City Campus, United Arab Emirates
Sameh Eisa, New Mexico Institute of Mining and Technology, USA
Fayez El-Sousy, Prince Sattam bin Abdulaziz University, Saudi Arabia
Mohamad Fathi Mohamad Elias, University of Malaya, Malaysia
Mahmoud Elmorshedy, Huazhong University of Science and Technology, China
Rachid Elmursi, United Arab Emirates
Mahmoud Elsisi, Benha University, Egypt
Rachid Errouissi, The Petroleum Institute, United Arab Emirates
Yakov Familiant, Eaton Corporation, USA
Ruiming Fang, Huaqiao University, China
Chen Feixiong, Fuzhou University, China
Xianyong Feng, University of Texas System, USA
Mehdi Firouzi, Iran
Markus Flueckiger, Switzerland
Colin Foote, Scottish Power Energy Networks, U.K.
Francisco Freijedo, Ecole Polytechnique Federale de Lausanne, Switzerland
Derick Furquim Pereira, Universidade Federal do Rio de Janeiro, Brazil
Anish Gopinath, Vikram Sarabhai Space Centre, India
Anil Gambhir, Indian Institute of Technology Kanpur, India
Lei Gan, Hohai University, China
Congzhe Gao, Beijing Institute of Technology, China
Chuanhou Gao, Zhejiang University, China
Zihan Gao, University of Tennessee, USA
Zaid Garcia Sánchez, University of New Brunswick, Canada
Man Mohan Garg, National Institute of Technology Rourkela, India
Aditya Gautam, Indian Institute of Technology Jodhpur, India
Roghayeh Gavagsaz-Ghoachani, Shahid Beheshti University, Iran
Baoyun Ge, C-Motive Technologies, Inc., USA
Lei Ge, China
Hua Geng, China
Amer Ghias, Nanyang Technological University, Singapore
Saeid Gholami Farkoush, South Korea
Seyyed Ali Ghorashi Khalil Abadi, University of New Mexico, USA
Xun Gong, Canada
Cheng Gong, Georgia Institute of Technology, USA
Gustavo Gontijo, Universidade Federal do Rio de Janeiro, Brazil
Rene Graves, Texas Instruments, USA
Travis Griffith, USA
Yan Guo, China
Ajay Gupta, Indian Institute of Technology Bombay, India
Yusuf Gupta, Indian Institute of Technology Bombay, India
Ramtin Hadidi, Clemson University, USA
Faeza Hafiz, North Carolina State University, USA
Saeid Haghbin, Elbind Elektronik AB, Sweden
Sukanta Halder, Indian Institute of Technology Roorkee, India
M. A. Hannan, Universiti Tenaga Nasional, Malaysia
Enamul Haque, Deakin University, Australia
Alvin Havens, e-Hazard Management, LLC, USA
Wei He, Hefei University of Technology, China
Xiuqiang He, China
Eddison Hernández, Escuela Politecnica Nacional, Ecuador
Shoeib Heydari, University of Nevada Reno, USA
Ana Hinojosa Herrera, University of Greenwich, U.K.
Carl Ho, University of Manitoba, Canada
Vu Ho, Viet Nam
Frederick Hoadley, ABB, USA
Tao Hong, UNC Charlotte, USA
Lee Hong, EI Dupont de Nemours and Company, USA
Sheikh Jakir Hossain, University of North Carolina at Charlotte, USA
Xiaosong Hu, Chongqing University, China
Xuefeng Hu, China
Yi-Liang Hu, National Chung Cheng University, Taiwan
Chunjun Huang, Sichuan University, China
Francisco Huerta, Universidad de Alcala de Henares, Spain
Khairul Amin Ifte, Lakehead University, Canada
Ernesto Inoa, Canoo, Inc., USA
Ruben Inzunza, TMEIC, Japan
Md. Rabiul Islam, University of Wollongong, Australia
Mohammad Jafari, University of Technology Sydney, Australia
Palak Jain, National University of Singapore, Singapore
Sergej Jakovlev, Klaipedos Universitetas, Lithuania
Phoompat Jampeethong, King Mongkut's Institute of Technology Ladkrabang, Thailand
Dong Jiang, Huazhong University of Science and Technology, China
Shilei Jiao, University of Houston Cullen, USA
Shi Jin, Shenyang University of Technology, China
Zheming Jin, Aalborg Universitet, Denmark
Chenchen Ju, Beijing University, China
Venkata Ravi Kishore Kanamarlapudi, Nanyang Technological University, Singapore
Chen Kui, FCLAB UTBM, France
Nandha Kumar Kandasamy, Singapore University of Technology and Design, Singapore
Akshay Kumar, Indian School of Mines, India

Jinsong Kang, Tongji University, China
Marc Kanzian, Infineon Technologies AG, Austria
Hazem Karbouj, Indian Institute of Technology Bombay, India
Masoud Karimi-Ghartemani, Mississippi State University, USA
Ralph Kennel, Technische Universitat Munchen, Germany
Shafiuzzaman Khadem, Tyndall National Institute, Ireland
Tohid Khalili, University of New Mexico, USA
Shakil Ahamed Khan, University of Technology Sydney, Australia
Mohd Khan, University Polytechnic Aligarh, India
Irfan Khan, Texas A&M University System, USA
Khalid Khan, Michigan Technological University, USA
James Kirtley, Massachusetts Institute of Technology, USA
Tomasz Kisielewicz, Warsaw University of Technology, Poland
Te-Tien Ku, National Kaohsiung University of Applied Sciences, Taiwan
Onkar Kulkarni, India
Shreyas Kulkarni, Georgia Institute of Technology, USA
Gnana Sambandam Kulothungan, National University of Singapore, Singapore
Avneet Kumar, Harbin Institute of Technology Shenzhen Graduate School, China
Raj Kumar, India
Vinod Kumar, Indian Institute of Technology, India
Sivanand Kumar, Nazarbayev University, Kazakhstan
José Kölzer, Universidade Federal de Santa Catarina, Brazil
Kexing Lai, The Ohio State University, USA
George Lazaroiu, University Politehnica of Bucharest, Romania
Paolo Lazzeroni, Istituto Superiore sui Sistemi Territoriali per l'Innovazione, Italy
Hong-Hee Lee, University of Ulsan, South Korea
Chia-Tse Lee, National Tsing Hua University, Taiwan
Siyu Leng, Canada
Dong Li, University of Manitoba, Canada
Qi Li, China
Guofeng Li, Institute of Electrostatics and Special Power Supply, China
Fei Li, Hefei University of Technology, China
Sufei Li, Georgia Institute of Technology, USA
Qiao Li, China
An Li, China
Zhiyi Li, Illinois Institute of Technology, USA
Xiaodong Liang, University of Saskatchewan, Canada
Xinyu Liang, Analog Devices, Inc., USA
Yicheng Liao, Aalborg University, Denmark
Agnes Lipovits, Hungary
Sheng Liu, Harbin Engineering University, China
Chunhua Liu, City University of Hong Kong, China
Yun Liu, Shenzhen University, China
Jinjun Liu, Xi'an Jiaotong University, China
Jingbo Liu, Rockwell Automation, USA
Hanchao Liu, GE Global Research, USA
Ren Liu, Washington State University, USA
Mingxi Liu, University of Utah, USA
Richard Loiselle, Suncor Energy, Inc., Canada
Mateus Lumertz, Universidade de São Paulo, Brazil
Xinlong Luo, Beijing University of Posts and Telecommunications, China
Jiayi Ma, Shandong University, China
Rui Ma, Northwestern Polytechnical University, China
Rahul Mishra, Indian Institute of Technology Bombay, India
Shujun Mu, National Institute of Clean and Low Carbon Energy, China
H. Ma, China
Yiwei Ma, University of Tennessee, USA
Kaveri Mahapatra, Pennsylvania State University, USA
Khizir Mahmud, University of New South Wales, Australia
Meiqin Mao, China
Lesedi Masisi, University of the Witwatersrand, South Africa
Mickael Mauger, Georgia Institute of Technology, USA
Prescott McLaughlin, Dartmouth College, USA
Michael Melfi, USA
Jinhao Meng, Northwestern Polytechnical University, China
Mohammadreza Miranbeigi, Georgia Institute of Technology, USA
Dillip Mishra, University of Technology Sydney, NSW, Australia, Australia
Santanu Mishra, Indian Institute of Technology Kanpur, India
Kumar Modepalli, Apple, Inc., USA
Ardashir Mohammadzadeh, University of Bonab, Iran
Haider Mohomad, Rockwell Automation Canada, Canada
Ali Mortezaei, Colorado School of Mines, USA
Fabio Mottola, University of Naples Federico II, Italy
Subrata Mukhopadhyay, Guru Tegh Bahadur Institute of Technology, India
Eduard Muljadi, Auburn University, USA
Kashem Muttaqi, University of Wollongong, Australia
Atthapol Ngaopitakkul, King Mongkut's Institute of Technology Ladkrabang, Thailand
Ramu Nair, Indian Institute of Science Campus Bangalore, India
Dan Neeser, Cooper Bussmann, USA
Tung-Lam Nguyen, University Grenoble Alpes, France
Nga Nguyen, University of Wyoming, USA
Mohammad Nikkhah Mojdehi, Syracuse University, USA
HSVS Kumar Nunna, National University of Singapore, Singapore
Wenbin Ouyang, University of North Texas System, USA
Emre Ozkop, Karadeniz Technical University, Turkey
Burak Ozpineci, Oak Ridge National Laboratory, USA
Xuewei Pan, Harbin Institute of Technology, China
Ashish Panchal, Sardar Vallabhbhai Patel Institute of Technology, India
Shengzhao Pang, Universite De Lorraine, France
Giovanni Parra, Fluor, USA
Nejila Parspour, University of Stuttgart, Germany
Dhaval Patel, Microchip Technology, Inc., India
Ranjeeta Patel, National Institute of Technology Rourkela, India
Dhaval Patel, North Carolina State University, USA
Devendra Patil, University of Texas at Dallas, USA
Xuejun Pei, Huazhong University of Science and Technology, China
Matheepot Phattanasak, KMUTNB, Thailand
Gabriel Pinto, Universidade do Minho, Portugal

Igor Pires, Universidade Federal de Minas Gerais, Brazil
Paola Pongiglione, Universita degli Studi di Genova Scuola Politecnica, Italy
Dan Popescu, Universitatea din Craiova, Romania
B. Rajanarayan Prusty, National Institute of Science and Technology, India
Liang Qiao, University of Tennessee, USA
Md. Rahman, University of Alberta, Canada
Tanvir Rahman, McGill University, Canada
Arief Noor Rahman, National Taiwan University of Science and Technology, Taiwan
Mini Rajeev, Fr.C.Rodrigues Institute of Technology, India
Gustavo Ramos, Universidad de los Andes, Colombia
Olive Ray, Indian Institute of Technology Bhubaneswar, India
Ahshan Razzaqul, Sultan Qaboos University, Oman
A. V. Sudhakara Reddy, Sri Venkateswara University, India
Alberto Rodríguez-Cabero, Instituto IMDEA Energia, Spain
L Roggia, Federal University of Santa Maria, Brazil
Roberto Rosso, ENERCON GmbH, Germany
Rakesh Roy, NIT Meghalaya, India
Ahmed Shahin, Faculty of Engineering, Egypt
Amirreza Sahami, University of North Carolina at Charlotte, USA
Saleh Saleh, University of New Brunswick, Canada
Raimundo Sampaio, Universidade Federal do Ceara, Brazil
Vince Saporita, Saporita Consulting, USA
Piampoom Sarikprueck, King Mongkut's Institute of Technology Ladkrabang, Thailand
Hossein Sartipizadeh, University of Texas at Austin, USA
Bayu Satmoko, Barito Pacific Petrochemical, Indonesia
Eva Serna Calvo, Siemens AG, Germany
Antonino Sferlazza, University of Palermo, Italy
Farhad Shahnia, Murdoch University, Australia
Hang Shao, Georgia Institute of Technology, USA
Rishi Sharma, Indian Institute of Technology Delhi, India
Jie Shi, University of Jinan, China
Amardeep Shitole, Visvesvaraya National Institute of Technology, India
Federico Silvestro, Universita degli Studi di Genova Scuola Politecnica, Italy
Santosh Singh, IIT (BHU), Varanasi, India
Rajeev Singh, IIT (BHU), India
Siriroj Sirisukprasert, Thailand
Marco Sorrentino, University of Salerno, Italy
Marios Charilaos Sousounis , U.K.
Daniel Stroe, Aalborg University, Denmark
Samer Sulaeman, Michigan State University, USA
Yao Sun, Central South University, China
Dongsen Sun, Temple University, USA
Rohit Suryadevara, Rensselaer Polytechnic Institute, USA
Jon Are Suul, Norwegian University of Science and Technology, Norway
Wesam Taha, Khalifa University of Science and Technology, United Arab Emirates
Zhuangyao Tang, University of Texas at Dallas, USA
Mugdesem Tanrioven, Turkey
Tomasz Tarczewski, Nicolaus Copernicus University in Torun, Poland
Elisabetta Tedeschi, Norwegian University of Science and Technology, Norway
Yanjun Tian, North China Electric Power University—Baoding Campus, China
Guanyu Tian, University of Central Florida, USA
Hossein Torkaman, Shahid Beheshti University, Iran
Avanish Tripathi, Indian Institute of Science, India
Andrzej Trzynadlowski, University of Nevada, Reno, USA
Yuan-Wei Tseng, I-Shou University, Taiwan
Hao Tu, North Carolina State University, USA
Taha Selim Ustun, Carnegie Mellon University, USA
Kanakesh V. K., National University of Singapore, Singapore
Rajesh Vasu, Indian Institute of Technology Kharagpur, India
D. Venkatramanan, Indian Institute of Science, India
Anjeet Verma, Indian Institute of Technology Delhi, India
Shashank Vyas, The Energy and Resources Institute, India
Benfei Wang, Sun Yat-Sen University, China
Keiji Wada, Tokyo Metropolitan University, Japan
Rong-Jong Wai, National Taiwan University of Science and Technology, Taiwan
Fei Wang, North China Electric Power University, China
D. Wang, Dalian Maritime University, China
Gaolin Wang, Harbin Institute of Technology, China
Jinrui Wang, Nanjing University of Aeronautics and Astronautics, China
Ning Wang, Tongji University, China
Fei Wang, Eindhoven University of Technology, Netherlands
Fei Wang, Shanghai University, China
Yu Wang, Nanyang Technological University, Singapore
Li Wang, National Cheng Kung University, Taiwan
Qian Wang, U.K.
Shengyi Wang, Temple University, USA
Huiqing Wen, China
Abebe Woldegiorgis, Addis Ababa University, Ethiopia
Heng Wu, Aalborg Universitet Teknisk, Denmark
Yu Wu, Universite de Technologie de Belfort-Montbeliard, France
Yuan-Kang Wu, National Chung Cheng University, Taiwan
Ping-Heng Wu, National Tsing Hua University, Taiwan
Xinze Xi, Electric Power Research Institute of Yunnan Power Grid, China
Shiwei Xia, North China Electric Power University, China
Xianyong Xiao, Sichuan University, China
Xiangyang Xing, China
Wei Xie, Electrical Drives and Actuators, China
Shuang Xu, University of New Brunswick, Canada
Shuai Xu, Southeast University, China
Yinliang Xu, Tsinghua-Berkeley Shenzhen Institute, China
Wenchao Xue, Key Lab. of Systems and Control, Academy of Mathematics and Systems Science, China
Hua Yang, Huazhong University of Science and Technology, China
Yongheng Yang, Aalborg University, Denmark
Zhuo Yang, University of Texas at Dallas, USA
Qichen Yang, USA

Dorai Babu Yelaverthi, Utah State University, USA
F Yi, Renesas Electronics Corporation America, USA
Zhijian Yin, Aalborg Universitet Teknisk, Denmark
Hung-Yi Yu, Taiwan Power Company, Taiwan
Hui Yu, North Carolina State University, USA
Qianzhi Zhang, Iowa State University, USA
Shen Zhang, Georgia Institute of Technology, USA
Wenfeng Zheng, China
Yonglei Zhang, China
Dongdong Zhao, Northwestern Polytechnical University, China
Zhuoli Zhao, South China University of Technology, China
Lin Zhao, Gannon University, USA
Ruxiu Zhao, Seres Automotive, USA
Ruxiu Zhao, USA
Liran Zheng, Georgia Institute of Technology, USA
Hui Zhong, Electrical Engineering School, China
Yanni Zhong, Siemens Wind Power A/S, U.K.
Chiyang Zhong, Georgia Institute of Technology, USA
Yulin Zhong, University of Michigan Dearborn, USA
Yuhao Zhou, University of Texas at Arlington, USA
Hongzhong Zhu, Kyushu University, Japan
Shengrong Zhuo, Universite Bourgogne Franche-Comte, France
Tianjie Zou, Huazhong University of Science & Technology, China

Industrial Lighting and Display Committee

Chair: Marco Dalla Costa, UFSM, Brazil
Papers Review Chair: Francis Dawson, University of Toronto, Canada
Associate Editor:
Francis Dawson, University of Toronto, Canada
Reviewers:
Guirguis Z. Abdelmessih, University of Oviedo, Spain
J Marcos Alonso, University of Oviedo, Spain
Zouhour Araoud, Ecole Nationale d'Ingenieurs de Monastir, Tunisia
Manuel Arias, Universidad de Oviedo, Spain
Laurent Canale, LAPLACE, France
Yi-Chun Chen, National Central University, Taiwan
Henry Chung, City University of Hong Kong, Hong Kong
Marco Dalla Costa, UFSM, Brazil
Munekazu Date, Nippon Telegraph and Telephone Corporation, Japan
Ron Hui, City University of Hong Kong, Hong Kong
Tom Huiskamp, Eindhoven University of Technology, Netherlands
Walter Kaiser, University of São Paulo, Brazil
Manfred Kettlitz, INP Greifswald, Germany
Leoš Kukačka, Technical University in Liberec, Czech Republic
John Lam, York University, Canada
Ray-Lee Lin, National Cheng Kung University, Taiwan
Jinno Masafumi, Ehime University, Japan
Wai Ng, University of Toronto, Canada
Saad Pervaiz, Texas Instruments, Inc., USA
Harry Ruda, Canada
Kayo Suzuki, Acaterial, Ltd., Japan
Georges Zissis, University of Toulouse, France

Process Industries Department

Chair: Steve Coppinger, CalPortland Company, USA
Vice-Chair—Papers: H. Landis Floyd, DuPont, USA

Cement Industry Committee

Chair: Chris Macey, Resco Products, USA
Papers Review Chair: Richard Schmidt, USA
Associate Editor:
Richard Schmidt, USA
Reviewers:
Jennifer Flemming, Ash Grove Cement, USA
Kevin Grotheer, Ash Grove Cement Company, USA
Arron Heinerikson, Trinity Consultants, USA
David Helfrich, KHD Humboldt Wedag, USA
Gerry Kaelin, FilterSense, USA
Brett Lindsay, Salt River Materials Group, USA
April Montera, Sabia, Inc., USA
Kevin Raymond, WEG Electric Corporation, USA
Sarah Vance, Grupo Cementos de Chihuahua SAB de CV, USA
Douglas Weber, Engineering System Solutions, ES2, USA

Electrical Safety Committee

Chair: Daniel Roberts,
Papers Review Chair: Daniel Doan, DuPont—Retired, USA
Associate Editors:
Lloyd Gordon, USA
Elihu Hoagland, e-Hazard.com, USA
Paul Sullivan, Dupont, USA
Kenneth White, USA
Reviewers:
Andrew Ackerman, NEI Electric Power Engineering, Inc., USA
John Ankoviak, Dow Corning Corporation, USA
Mark Babb, USA
Adams Baker, Eaton Corporation, USA
Louis Barrios, Shell Global Solutions, USA
Maxime Berger, Ecole Polytechnique de Montreal, Canada
Jim Bowen, MMS, USA
Gavin Burdge, Freelance Safety and Hygiene, USA
Paul Campbell, Electric Motor Shop, USA
Paul Cardinal, Shell Oil Company, USA
Kyle Carr, Los Alamos National Laboratory, USA
Michael Chirico, Nussbaumer and Clarke, Inc., USA
D Ray Crow, DRC Consulting, Ltd., USA
Sonny Dela, Nestle, USA
Raghavender Deshagoni, Victoria University of Wellington, New Zealand
Wendi Dickerson, Brown and Caldwell, USA
Daniel Doan, DuPont—Retired, USA
Paul Dobrowsky, USA
Mike Doherty, e-Hazard, Canada
Dan Etemadi, Canada
H. Floyd, University of Alabama at Birmingham, USA
Tammy Gammon, USA
Frederick Gantzer, USA

Mikhail Golovkov, Consultant, USA
Rene Graves, Texas Instruments, USA
Alvin Havens, e-Hazard Management, LLC, USA
Michael Hodder, Canada
Richard Holub, DuPont, USA
Matthew Hussey, Eaton Corporation, USA
Padma Kasthurirangan, Niagara Wind & Solar, Inc., USA
Joshua Kerr, USA
Michael King, Eaton, USA
Mike Lang, Mersen, USA
Roger Lawrence, USA
Robert LeRoy, LeRoy Electrical Enterprizes, Inc., USA
Wei-Jen Lee, University of Texas at Arlington, USA
Kevin Lippert, Eaton, USA
Donald Lockhart, Google, Inc., USA
Afshin Majd, Amazon Web Services, Inc., USA
Tommy Martinez, Los Alamos National Laboratory, USA
Jackie McAlhaney, SRNS, USA
Sean Monckton, Olin Corporation, USA
Charles Morse, Siemens Industry, Inc., USA
Wes Mozley, Sandia National Laboratories, USA
Dennis Neitzel, Eagle Research Group, Inc., USA
Clifton Oertli, NEI, USA
David Pace, Olin Corporation, USA
Antony Parsons, Square D Engineering Services, USA
Jay Prigmore, USA
Brian Prokuda, Keweenaw Power Systems, Inc., USA
Joseph Rachford, USA
Elliot Rappaport, Electro Technology, USA
Ryan Salisbury, Oklahoma Gas & Electric, USA
Vince Saporita, Saporita Consulting, USA
Mark Scott, Lawrence Berkeley National Laboratory, USA
Scott Seaver, TE Connectivity, Ltd., USA
Kenneth Sellars, E-hazard, LLC, USA
Tom Short, EPRI, USA
Eric Stromberg, Los Alamos National Laboratory, USA
Paul Sullivan, Dupont, USA
Christopher C Thompson, USA
Esperanza Torres Gutierrez, Universidad de los Andes, Colombia
Derek Vigstol, National Fire Protection Association, USA
Douglas Wettekin, Olin Corporation, USA
James White, Shermco Industries, Inc., USA
Kenneth White, USA
Stephen Wilson, Canada
Jason Wolf, USA
Yevgen Yevsyeyev, Leaf Electrical Safety, Canada

Metal Industry Committee

Chair: Cheng-Tsung (CT) Liu, National Sun Yat-Sen University, Taiwan
Papers Review Chair: Juan Lopera, Universidad de Oviedo, Spain
Associate Editors:
Cheng-Tsung Liu, National Sun Yat-Sen University, Taiwan
Juan Lopera, Universidad de Oviedo, Spain
Reviewers:
Ayman Abdel-Khalik, Alexandria University, Egypt
Gonzalo Arturo Alonso Orcajo, University of Oviedo, Spain
E.A. Cano-Plata, Universidad Nacional de Colombia, Colombia
David Durocher, Eaton Corporation—Retired, USA
Hassan Eldeeb, Florida International University, USA
Muammer Ermis, Middle East Technical University, Turkey
Cheng-Ting Hsu, Southern Taiwan University of Science and Technology, Taiwan
Yu-Liang Hsu, Feng Chia University, Taiwan
Chang-Chou Hwang, Feng Chia University, Taiwan
Min Kang, China
Andreas Kugi, TU Wien, Austria
Tzung-Lin Lee, National Sun Yat-sen University, Taiwan
Weili Li, Beijing Jiaotong University, China
Sheng-Yang Lin, China Steel Corporation, Taiwan
Cheng-Tsung Liu, National Sun Yat-Sen University, Taiwan
Juan Lopera, Universidad de Oviedo, Spain
Punyaphat Phumiphak, Mahanakorn University of Technology, Thailand
Igor Pires, Universidade Federal de Minas Gerais, Brazil
John Pittner, University of Pittsburgh, USA
Héctor del Arco Rodríguez, Universidad de Oviedo, Spain
Ozgul Salor, Tubitak-Uzay METU Campus, Turkey
Ruben Usamentiaga, University of Oviedo, Spain
Asier Vicente, ArcelorMittal Basque Country Research Centre, Spain
Guorui Xu, North China Electric Power University, China
Yung-Yi Yang, China Steel Corporation, Taiwan
Yang Zhan, North China Electric Power University, China
Haisen Zhao, North China Electric Power University, China

Mining Industry Committee

Chair: Pablo Aqueveque, Universidad de Concepcion, Chile
Papers Review Chair: Joseph Sottile, Jr., University of Kentucky, USA
Associate Editor:
David Mazur, Rockwell Automation, USA
Joseph Sottile, University of Kentucky, USA
Reviewers:
J Marcos Alonso, University of Oviedo, Spain
Jose Antonino-Daviu, Universidad Politecnica Valencia, Spain
Zheyuan Cheng, North Carolina State University, USA
Edith Clavel, G2ELab, France
Jeff Glenney, Canada
Jorge Henriquez, University of Concepcion, Chile
John Kay, Rockwell Automation, Canada
Duane Leschert, WorleyParsons, Canada
David Mazur, Rockwell Automation, USA
Paul McRoberts, Rockwell Automation, Inc., USA
Anibal Morales, Universidad Catolica de la Santisima Concepcion, Chile
Thomas Novak, University of Kentucky, USA
Kevin Raymond, WEG Electric Corporation, USA
Ali Safayet, North Carolina State University, USA
Eduardo Wiechmann, Universidad de Concepcion, Chile

Yongheng Yang, Aalborg University, Denmark
Hung-Yi Yu, Taiwan Power Company, Taiwan
Georges Zissis, University of Toulouse, France
Boyi Zhang, University of Florida, USA
Petroleum and Chemical Industry Committee
Chair: Dennis Bogh, GE, USA
Papers Review Chair (USA Papers): Paul Sullivan, DuPont, USA
Papers Review Chair (Affiliated Conference Papers): Brant Cassimere, ExxonMobil, USA
Associate Editors:
Miriam Blazowski, USA
Brant Cassimere, ExxonMobil, USA
Michael Harbison, Waldemar S. Nelson & Co., USA
Ryan Maynus, Siemens Industry, Inc., USA
Reviewers:
Steven Abaray, Hess Corporation, USA
Ricardo Abboud, Schweitzer Engineering Laboratories, USA
Guirguis Z. Abdelmessih, University of Oviedo, Spain
Andrew Ackerman, NEI Electric Power Engineering, Inc., USA
Aswad Adib, Kansas State University, USA
Sai Akhil Reddy Konakalla, University of California San Diego, USA
Tim Albers, Nidec Motor Corporation, USA
Alaa Alchaddoud, LAPLACE Lab., Syrian Arab Republic
Roberto Asano, Spain
Scott Basinger, Eaton Corporation, Canada
Dale Basso, WEG Electric Corporation, USA
Partha Basu, ExxonMobil, USA
Hugh Blair, Siemens Industry, Inc., USA
Jim Bowen, MMS, USA
Frederick Bried, USA
Paul Cardinal, Shell Oil Company, USA
Kyle Carr, Los Alamos National Laboratory, USA
Ray Catlett, USA
Mark Chisholm, Siemens, USA
D Ray Crow, DRC Consulting, Ltd., USA
Karl Cunningham, IEEE, USA
Kolja DeRegt, Canada
Frank Dewinter, USA
Ashwani Dhawan, Enbridge, Inc., Canada
Ken Do, USA
Mike Doherty, e-Hazard, Canada
John Dulas, ABB, Inc., USA
Donald Dunn, USA
Robert Durham, THEWAY Labs, USA
Dan Etemadi, Canada
Pat Fedder, Praxair, Inc., USA
H. Floyd, University of Alabama at Birmingham, USA
John Focke, USA
Seyedeh Foroutan, Washington State University, USA
Gary Fox, ABB, Inc., USA
Sonny Gaidhu, Iris Power, Canada
Allen Gibson, Roxtec Group, USA
Randy Gillard, Enbridge, Inc., Canada
Pamela Gold, Thermon Industries, USA
Krishnanjan Gubba Ravikumar, Schweitzer Engineering Laboratories, Inc., USA
Paul Guidry, Fluor Enterprises, Inc., USA
Rehanul Hasan, Appleton Group, USA
Jonathan Havey, USA
Chris Heron, TecoWestinghouse Motor Company, USA
Lee Herron, USA
Scott Hietpas, ExxonMobil Chemical, USA
Frederick Hoadley, ABB, USA
Elihu Hoagland, e-Hazard.com, USA
Michael Hodder, Canada
Ted Inbau, USA
Ben Johnson, USA
Karen Johnson, Siemens, USA
Zarheer Jooma, e-Hazard Management LLC, USA
Harshavardhan Karandikar, ABB, Inc., USA
Linda Kiss, Pentair Thermal Management, USA
Aboli Kulkarni, Schweitzer Engineering Laboratories, Inc., USA
Nicolas Leblanc, Shell Canada Products, Canada
Duane Leschert, WorleyParsons, Canada
John Letal, Iris Power, Canada
Modesto Lezama, ABS, USA
Jin Li, Eaton Corporation, USA
Steve Liggio, Point Eight Power, USA
Bill Lockley, Canada
Rhett Long, ExxonMobil, Canada
David Lu, Toshiba International Corporation, USA
Fernando Lugo, USA
Keith Lyles, Praxair, USA
Albert Marroquin, ETAP, USA
Andy Martin, USA
Carlos Martinez, Fluor, USA
Ryan Maynus, Siemens Industry, Inc., USA
Will McBride, CONAM Construction Company, USA
Robert McElveen, USA
Michael Melnick, Air Prodcuts and Chemicals, Inc., USA
Abrez Mondal, Eaton Corporation, USA
Charles Morse, Siemens Industry, Inc., USA
Paul Myers, PCS Nitrogen, USA
Jack Neelis, W.S. Nelson & Co., USA
Melvin Neufeld, Enbridge Pipeline, Inc., Canada
Jason Obermeyer, Siemens Industry, Inc., USA
Clifton Oertli, NEI, USA
Lorraine Padden, USA
Dwaraka Padimiti, USA
Richard Paes, Rockwell Automation, Canada
Blake Parker, Integrated Power Services, USA
Giovanni Parra, Fluor, USA
Troy Parvino, Chevron, USA
Anindya Paul, Canada
Dev Paul, AECOM, USA
Kevin Peterson, P2S Engineering, Inc., USA
Gianluca Peviani, GE Grid Solutions SAS, France
Douglas Phares, TMEIC, USA
Ryan Queen, Siemens Industry, Inc., USA
Clinton Roache, USA
Pat Robinson, Altelec, Canada
Valentine Rogez, Solvay SA, Belgium

W C Rossman, Canada
Caroline Rublein, Pennsylvania State University—Main Campus, USA
Malcolm Seltzer-Grant, HVPD, U.K.
Roman Sikora, Technical University of Lodz, Poland
Hongbiao Song, GE Grid Solutions, USA
Steve Spence, Kraton Polymers LLC, USA
Bill Stewart, Chevron, USA
David Stewart, USA
Greg Stone, Canada
Ray Stoodley, Real Solutions, Inc., Canada
Elder Stringari, WEG, Brazil
Paul Sullivan, Dupont, USA
Peter Sutherland, General Electric Company, USA
Francois Thauvin, USA
Dan Thomas , U.K.
Mark Throckmorton, Shell Global Solutions Canada, Canada
Marcelo Valdes, ABB, USA
Manish Verma, TMEIC, USA
King Wai, USA
Clarence Wallace, USA
Wayne Walters, General Cable, USA
Douglas Wettekin, Olin Corporation, USA
James White, Shermco Industries, Inc., USA
Steve Williams, Co-op Refinery Complex, Canada
Stephen Wilson, Canada
Dean Yager, SaskPower, Canada
Navid Zargari, Rockwell Automation, Canada
Gaetano Zizzo, Universita degli Studi di Palermo, Italy

Pulp and Paper Industry Committee

Chair: Todd Legette, International Paper, USA
Program Chair: Mark Zawadzki, International Paper, USA
Papers Review Chair: Nehad El-Sherif, MNKYBR Technologies, Inc., Canada
Associate Editors:
Nehad El-Sherif, MNKYBR Technologies, Inc., Canada
Mark Zawadzki, International Paper, USA
Reviewers:
Jeff Glenney, Bender, Inc., USA
Emily Held, International Paper, USA
Chris Heron, TecoWestinghouse Motor Company, USA
Roger Lawrence, RGL Solutions, USA
Duncan Rhodes, Retired, USA

2019 *Special Issue on High-Performance Power Electronic Converters: Topologies, Control, and Devices*

Guest Editor: Luca Solero, Roma Tre University, Italy
Guest Editor: Petar Grbovic, Huawei Technologies, Germany
Associate Editors:
Vivek Agarwal, Indian Institute of Technology-Bombay, India
Mahshid Amirabadi, Northeastern University, USA
Stefano Bifaretti, University of Rome Tor Vergata, Italy
Huang-Jen Chiu, National Taiwan University of Science and Technology, Taiwan
Maurizio Cirrincione, University of the South Pacific, Fiji
Dong Dong, Virginia Tech, USA
Liang Du, Temple University, USA
Andrea Formentini, University of Nottingham, U.K.
Francesco Iannuzzo, Aalborg University, Denmark
Dong Jiang, Huazhong University of Science and Technology, China
Surin Khomfoi, King Mongkut's Institute of Technology Ladrakabang, Thailand
Xiaonan Lu, Temple University, USA
Ke Ma, Aalborg University, Denmark
Santanu Mishra, Indian Institute of Technology Kanpur, India
Vito Giuseppe Monopoli, Politecnico di Bari, Italy
Adel Nasiri, UW-Milwaukee, USA
Babak Parkhideh, University of North Carolina at Charlotte, USA
Leila Parsa, Rensselaer Polytechnic Institute, USA
Marcello Pucci, Institute for Marine Engineering (INM), Italy
Giacomo Scelba, University of Catania, Italy
Jean-Luc Schanen, G2ELab—Univ Grenoble Alpes, France
Xu She, United Technologies Corporation, USA
Luca Solero, University Roma Tre, Italy
Yongsug Suh, Chonbuk National University, South Korea
Ruxi Wang, GE Global Research, USA
Xiongfei Wang, Aalborg University, Denmark
Zhiqiang Wang, Huazhong University of Science and Technology, China
Lixiang Wei, Rockwell Automation, USA
Pete Wung, USA
Xibo Yuan, The University of Bristol, U.K.
Junming Zhang, Zhejiang University, China
Reviewers:
Mostafa Abarzadeh, Ecole de technologie superieure, Canada
Sayan Acharya, North Carolina Central University, USA
Mahmood Alharbi, University of Central Florida, USA
Abdulhakeem Alsaleem, Colorado School of Mines, USA
Albino Amerise, University of Bologna, Italy
Mohammad Amin, Norwegian University of Science and Technology, Norway
Alexander Anthon, Danmarks Tekniske Universitet, Denmark
Ragusa Antonella, CNR, Italy
Hua Bai, University of Tennessee, USA
Sandeep Bala, ABB Corporate Research, USA
Kaushik Basu, Indian Institute of Science, India
Reinhold Bayerer, None, Germany
Subhadeep Bhattacharya, Canada
Jessica Boles, Massachusetts Institute of Technology, USA
Silverio Bolognani, University of Padova, Italy
Vijay Borghate, Visvesvaraya National Institute of Technology, India
Concettina Buccella, Universita degli Studi dell'Aquila, Italy
Giampaolo Buticchi, University of Nottingham—Ningbo China, China
Dong Cao, North Dakota State Unviersity, USA
Jianwu Cao, Enersys, Inc., USA
Sumit Chattopadhyay, Indian Institute of Technology Kharagpur, India
Yang Chen, Shanghai University of Electric Power, China

Hsin-Chih Chen, Taiwan
Fang Chen, Virginia Tech, USA
Fangzhou Cheng, University of Nebraska-Lincoln, USA
Shihfeng Chou, Aalborg Universitet Teknisk, Denmark
Maurizio Cirrincione, University of the South Pacific, Fiji
Alessio Clerici, Politecnico di Milano, Italy
Vahid Dargahi, University of Washington Tacoma, USA
Appa Rao Dekka, Lakehead University, Canada
Fujin Deng, Southeast University, China
Jesus Doval-Gandoy, Universidade de Vigo, Spain
Sumit Dutta, John Deere Electronics Solutions, USA
Fayez El-Sousy, Prince Sattam bin Abdulaziz University, Saudi Arabia
Salvatore Foti, Universita degli Studi di Messina, Italy
Francisco Freijedo, Ecole Polytechnique Federale de Lausanne, Switzerland
Anil Gambhir, Indian Institute of Technology Kanpur, India
Cheng Gong, Georgia Institute of Technology, USA
Cristina Gonzalez Moral, Universidad de Oviedo, Spain
Yunjie Gu, Imperial College London, U.K.
Yueshi Guan, Harbin Institute of Technology, China
Xiaoqiang Guo, China
Saeid Haghbin, Elbind Elektronik AB, Sweden
Di Han, Monolithic Power Systems, Inc., USA
Philip Hart, USA
Chris Heron, TecoWestinghouse Motor Company, USA
Tianqi Hong, USA
Yao-Ching Hsieh, National Sun Yat-sen University, Taiwan
Cursino Jacobina, Federal University of Campina Grande, Brazil
Prashant Jain, Bharat Heavy Electricals, Ltd., Research and Development, India
Shiqi Ji, University of Tennessee, USA
Somyot Kaitwanidvilai, King Mongkut's Institute of Technology Ladkrabang, Thailand
Petros Karamanakos, Tampereen Teknillinen yliopisto, Finland
Shafiuzzaman Khadem, Tyndall National Institute, Ireland
Raghav Khanna, Bucknell University, USA
Sungmin Kim, Hanyang University—ERICA Campus, South Korea
Jae-Kuk Kim, Inha University, South Korea
Geethi Krishnan, Indian Institute of Technology, Bombay, India
Y. C. Liu, Taiwan
Jung-Hyo Lee, Kunsan National University, South Korea
Riccardo Leuzzi, Politecnico di Bari, Italy
Binbin Li, Harbin Institute of Technology, China
Rui Li, Shanghai Jiao Tong University, China
Qiao Li, China
Bin Li, China
Helong Li, Cree Europe, Germany
Cong Li, The Ohio State University, USA
He Li, The Ohio State University, USA
Ye Li, University of Wisconsin-Madison, USA
Yicheng Liao, Aalborg University, Denmark
Alessandro Lidozzi, Universita degli Studi Roma Tre, Italy
Jin-Yuan Lin, National Taiwan University of Science and Technology, Taiwan
Junfeng Liu, South China University of Technology, China
Zhijie Liu, Shandong University, China
Yitao Liu, Shenzhen University, China
Bo Liu, University of Tennessee, USA
Hanchao Liu, GE Global Research, USA
Xiaonan Lu, Temple University, USA
Christopher Lute, South Coast Solar, USA
Rahul Mishra, Indian Institute of Technology Bombay, India
Junpeng Ma, Sichuan University, China
Ke Ma, Aalborg University, Denmark
Sachin Madhusoodhanan, North Carolina State University, USA
Madhav Manjrekar, University of North Carolina—Charlotte, USA
Juan Antonio Martin-Ramos, Universidad de Oviedo, Spain
Alinaghi Marzoughi, USA
Michele Mengoni, University of Bologna, Italy
Santanu Mishra, Indian Institute of Technology Kanpur, India
Kumar Modepalli, Apple, Inc., USA
Soumya Mohapatra, Indian Institute of Technology Bombay, India
Adson Moreira, Universidade Federal do Ceará, Brazil
Parthasarathy Nayak, Indian Institute of Technology, Madras, India
Minh-Khai Nguyen, South Korea
Emre Ozkop, Karadeniz Technical University, Turkey
Worapong Pairindra, Valaya Alongkorn Rajabhat University, Thailand
Savvas Papadopoulos, University of Nottingham, U.K.
In-Kwon Park, RTDS Technologies, Inc., Canada
Thiago Parreiras, Federal University of Minas Gerais, Brazil
Timothy Polom, University of Wisconsin Madison, USA
Subarni Pradhan, Indian Institute of Technology Delhi, India
Bjørn Rannestad, Aalborg Universitet Teknisk, Denmark
Marco Rivera, Universidad de Talca, Chile
Alberto Rodríguez-Cabero, Instituto IMDEA Energia, Spain
Javier Roldan-Perez, Instituto IMDEA Energia, Spain
Tomas Sadilek, General Electric Company, USA
Mehdi Salehifar, University Polytechnica de Catalunya, Spain
Subhendu Santra, KIIT University, India
Shelas Sathyan, National Institute of Technology Tiruchirappalli, India
Jean-Luc Schanen, G2ELab—Univ Grenoble Alpes—UMR CNRS 5269—G-INP, France
Antonino Sferlazza, University of Palermo, Italy
Mohammad Sharifzadeh, Ecole de technologie superieure, Canada
Chuan Shi, University of Maryland, USA
Sanjeev Singh, Sant Longowal Institute of Engineering & Technology Longowal, India
Yash Singh, GE Global Research, USA
Peter Steimer, ABB, Ltd., Switzerland
Warachart Suwan-ngam, King Mongkut's Institute of Technology Ladkrabang, Thailand
Awneesh Tripathi, North Carolina State University, USA
Vuttipon Tarateeraseth, Srinakharinwirot University, Thailand
Luca Tarisciotti, Universidad Andres Bello, Chile
Phatiphat Thounthong, King Mongkut's University of Technology North Bangkok, Thailand

Leon Tolbert, The University of Tennessee, USA
Bismark Torrico, Federal University of Ceara, Brazil
Ionut Trintis, Vestas Wind Systems A/S, Denmark
Avanish Tripathi, Indian Institute of Science, India
Akhilesh Tripathi, Raja Ramanna Centre for Advanced Technology, India
Ioannis Tsoumas, ABB Schweiz AG, Switzerland
Kui Wang, Tsinghua University, China
Jinyu Wang, China
Jiangfeng Wang, Nanjing University of Aeronautics and Astronautics, China
Panbao Wang, China
Chien-Ming Wang, National I-Lan University, Taiwan
Fei Wang, Shanghai University, China
Mengqi Wang, University of Michigan Dearborn, USA
Jiyao Wang, University of Wisconsin-Madison, USA
Yukai Wang, University of Wisconsin-Madison, USA
Chen Wei, China University of Mining and Technology, China
Xinke Wu, Zhejiang University, China
Bin Wu, University of Maryland, College Park, USA
Yinglai Xia, Texas Instruments, Inc., USA
Shunlong Xiao, Texas A&M University, USA
Qianming Xu, China
Shuai Xu, Southeast University, China
Qianwen Xu, Nanyang Technological University, Singapore
Rong Xu, University of Texas at Austin, USA
Yizhe Xu, North Carolina State University, USA
Qichen Yang, USA
Shinya Yano, Mitsubishi Electric Corporation, Japan
Wenxi Yao, China
Udaykumar Yaragatti, National Institute of Technology Karnataka, India
Hulong Zeng, Michigan State University, USA
Yongchang Zhang, North China University of Technology, China
Li Zhang, Hohai University, China
Chen Zhang, Norges Teknisk-Naturvitenskapelige Universitet, Norway
Xin Zhang, Nanyang Technological University, Singapore
Yechi Zhang, Huazhong University of Science and Technology, China
Zhenbin Zhang, Shandong University, USA
Weimin Zhang, The University of Tennessee, Knoxville, USA
Zheyu Zhang, Clemson University, USA
Biao Zhao, China
Xiaonan Zhao, Virginia Polytechnic Institute and State University, USA
Sheng Zheng, Oak Ridge National Laboratory, USA
Binxin Zhu, China Three Gorges University, China
Qianlai Zhu, Apple, Inc., USA
Shenli Zou, University of Maryland, USA

2019 *Special Issue on Building Automation, Metering and Microgrids for Energy Efficiency in Industrial and Commercial Power Systems*

Guest Editor: Luigi Martirano, University of Rome, Italy
Guest Editor: Massimo Mitolo, Irvine Valley College, USA
Associate Editors:
Paul Cardinal, Shell Oil Company, USA
Payman Dehghanian, George Washington University, USA
Zhaohao Ding, North China Electric Power University, China
Gary Fox, ABB, Inc., USA
Fabio Freschi, Politecnico di Torino, Italy
Veda Prakash Galigekere, Oak Ridge National Laboratory, USA
Wei-Jen Lee, University of Texas at Arlington, USA
Xiaodong Liang, University of Saskatchewan, Canada
Haijun Liu, ETAP, USA
Claudio Mardegan, EngePower, Brazil
Luigi Martirano, Sapienza University of Rome, Italy
Giuseppe Parise, Sapienza University of Rome, Italy
Gianmario Pellegrino, Politecnico di Torino, Italy
Saleh Saleh, University of New Brunswick, Canada
Kent Sayler, P2S, Inc., USA
Reviewers:
Ricardo Abboud, Schweitzer Engineering Laboratories, USA
Guirguis Z. Abdelmessih, University of Oviedo, Spain
M G Abdolrasol, Universiti Kebagsaan Malaysia, Malaysia
Hadi Akbari, University of Wisconsin Milwaukee, USA
Abdualah Aljankawey, The University of New Brunswick, Canada
Marco Allegri, Professional Engineer, Italy
Chitral Angammana, Nanorial Technologies, Ltd., Canada
Norma Anglani, University of Pavia, Italy
Rodolfo Araneo, Sapienza University, Italy
Diego Arcos-Aviles, Universidad de las Fuerzas Armadas, Ecuador
Agasthya Ayachit, Wright State University Center for Global Health, USA
Mustafa Ayas, Karadeniz Teknik Universitesi, Turkey
Salam Bani Ahmed, Eaton Corporation, USA
John P. Barton, Loughborough University, U.K.
Balanthi Abdul Beig, Khalifa University of Science Technology, United Arab Emirates
Tanmoy Bhattacharya, IIT Kharagpur, India
Pakkiraiah Bhupanapati, Koneru Lakshmaiah University, India
Igor Brandao Machado Matsuo, University of Texas at Arlington, USA
Barry Brusso, S&C Electric Co., USA
Tiago Busarello, Universidade Federal de Santa Catarina, Brazil
Bharatiraja C, SRM University, India
Hsueh-Hsien Chang, Taiwan
Luigi Calcara, Universita degli Studi di Roma La Sapienza, Italy
Laurent Canale, LAPLACE, France
Carlos Capovilla, Universidade Federal do ABC, Brazil
Paul Cardinal, Shell Oil Company, USA
Shantanu Chakraborty, NEC Corporation, Japan
Ben Chavdarian, P2S, Inc., USA
Zheyuan Cheng, North Carolina State University, USA
Gonzalo Constante-Flores, Ohio State University, USA
Preeti Dahiya, National Institute of Technology Hamirpur, India
Manoj Datta, RMIT University, Australia
Kristin Dietrich, Comillas Pontifical University, Spain
Zhaohao Ding, North China Electric Power University, China

Sumit Dutta, John Deere Electronics Solutions, USA
Shailendra Dwivedi, India
Ali Elrayyah, Qatar Environment and Energy Research Institute, Qatar
Xianyong Feng, University of Texas System, USA
Congzhe Gao, Beijing Institute of Technology, China
Zaid Garcia Sánchez, University of New Brunswick, Canada
Murat Gol, Middle East Technical University, Turkey
Xun Gong, Canada
Miao He, Texas Tech University, USA
Mohammad Heidari, University of Alaska Anchorage, USA
Prashant Jain, Bharat Heavy Electricals, Ltd., Research and Development, India
Walter Kaiser, University of São Paulo, Brazil
Hadis Karimipour, University of Guelph, Canada
Utkarsh Kavimandan, Tennessee Technological University, USA
Mostafa Kermani, Universita degli Studi di Roma La Sapienza, Italy
Vinod Khadkikar, Masdar Institute of Science and Technology, United Arab Emirates
Irfan Khan, Texas A&M University System, USA
Ali Khorasani Ferdavani, Nanyang Technological University, Singapore
Mohammad Khoshjahan, Texas A&M University College Station, USA
Aboli Kulkarni, Schweitzer Engineering Laboratories, Inc., USA
Pradeep Kumar, India
Phil Lasek, Shell Canada Products, Canada
George Lazaroiu, University Politehnica of Bucharest, Romania
Paolo Lazzeroni, Istituto Superiore sui Sistemi Territoriali per l'Innovazione, Italy
Canbing Li, Hunan University, China
Li Li, The George Washington University, USA
Chunhua Liu, City University of Hong Kong, China
Meng Liu, Oncor Electric Delivery Co LLC, USA
Edgard Luiz Lopes Fabricio, Instituto Federal de Educacao Ciencia e Tecnologia da Paraiba, Brazil
Marco Maccioni, 'Sapienza' University of Rome, Italy
Dmytro Mamchur, Kremenchuk Mykhailo Ostrohradskyi National University, Ukraine
Moein Manbachi, Simon Fraser University, Canada
Nishad Mendis, University of Wollongong, Australia
Abrez Mondal, Eaton Corporation, USA
Subrata Mukhopadhyay, Guru Tegh Bahadur Institute of Technology, India
Mostafa Nazemi, George Washington University, USA
Mohammad Nikkhah Mojdehi, Syracuse University, USA
Emre Ozkop, Karadeniz Technical University, Turkey
Salih Ozturk, Istanbul Okan University, Turkey
Massimo Panella, Universita degli Studi di Roma La Sapienza, Italy
Chirath Pathiravasam, Clemson University, USA
Dev Paul, AECOM, USA
Alberto Pigazo, University of Cantabria, Spain
Petrus Pijnenburg, UNB, Canada
Carlos Platero, Universidad Politécnica de Madrid, Spain
Anderson de Queiroz, North Carolina State University, USA
Franklin Quilumba, Oncor Electric Delivery Co LLC, USA
Anushree Ramanath, University of Minnesota Twin Cities, USA
Ahshan Razzaqul, Sultan Qaboos University, Oman
Remy Rigo-Mariani, Nanyang Technological University, Singapore
Michael Ross, McGill University, Canada
Saleh Saleh, University of New Brunswick, Canada
Farshid Salehi, University of Texas at Arlington, USA
Farashid Salehi, DNV GL, USA
Piampoom Sarikprueck, King Mongkut's Institute of Technology Ladkrabang, Thailand
Hossein Sartipizadeh, University of Texas at Austin, USA
Mohamed Shaaban, Universiti Malaysia Sarawak, Malaysia
Jie Shi, China
Zhikang Shuai, China
Pierluigi Siano, University of Salerno, Italy
Xavier St-Onge, University of New-Brunswick, Canada
Ray Stoodley, Real Solutions, Inc., Canada
Zoltán Ádám Tamus, Budapest University of Technology and Economics, Hungary
Kannan Thirugnanam, Singapore University of Technology and Design, Singapore
Supun Tiptipakorn, USA
Giorgio Valente, Nottingham University, U.K.
Anjeet Verma, Indian Institute of Technology Delhi, India
Yanbo Wang, Aalborg University, Denmark
Bo Wang, The George Washington University, USA
Jia Ying Yong, Universiti Tenaga Nasional, Malaysia
Liang Yu, China
Xiangrui Zeng, The Ohio State University, USA
Qianzhi Zhang, Iowa State University, USA
Jie Zhang, University of Texas at Dallas, USA
Long Zhao, University of Texas at Arlington, USA
Yuhao Zhou, University of Texas at Arlington, USA

2020 Special Issue Security, Reliability, Privacy, and Quality in Industrial Automation and Control

Guest Editor: Muhammad Usman, University of Surrey, U.K.
Guest Editor: Alireza Jolfaei, Federation University, Australia
Guest Editor: Iqbal Gondal, Federation University, Australia
Guest Editor: Krishna Kant, Temple University, USA
Guest Editor: Anurag Srivastava, Washington State University, USA
Guest Editor: Professor Sukumar Kamalasadan, University of North Carolina, USA
Associate Editors:
Deepak Fulwani, Indian Institute of Technology Jodhpur, India
Iqbal Gondal, Federation University Australia, Australia
Alireza Jolfaei, Australia
Sukumar Kamalasadan, University of North Carolina at Charlotte, USA
Krishna Kant, Temple University, USA
Kashem Muttaqi, University of Wollongong, Australia

Akshay Rathore, Concordia University, Canada
Anurag Srivastava, Washington State University, USA
Muhammad Usman, Federation University Australia, Australia
Muhammad Usman, University of Surrey, U.K.

Reviewers:

M G Abdolrasol, Universiti Kebagsaan Malaysia, Malaysia
Ahmed Abu-Siada, Curtin University, Australia
Angelo Accetta, National Research Council, Italy
Andrew Ackerman, NEI Electric Power Engineering, Inc., USA
Nor Baizura binti Ahamad, Aalborg Universitet Teknisk, Denmark
Khaled Ahmed, University of Aberdeen, U.K.
Raja Ahmed Khan, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Pakistan
Norman Akbar, USA
Mamoun Alazab, Charles Darwin University, Australia
Fadhel Albasri, Bahrain
Saleh Almasabi, Michigan State University, USA
Augusto Alonso, Unesp—Univ Estadual Paulista, Brazil
Karima Amara Korba, Algeria
Fernando Amaral, Universidade Federal de Minas Gerais, Brazil
Ruhul Amin, India
Bruno André, Schneider Electric Energy Automation, France
Philippe Angays, Technip France, France
Zeeshan Ahmad Arfeen, The Islamia University of Bahawalpur Pakistan, Pakistan
Vijay As, Indian Institute of Technology Bombay, India
Venki Balasubramanian, Federation University Australia, Australia
José Baptista, University of Trás-os-Montes e Alto Douro, Portugal
Allan Barros, Brazil
Ali Kashif Bashir, Manchester Metropolitan University, U.K.
Carl Benner, Texas A&M University, USA
Cristian Blanco, University of Oviedo, Spain
Chiara Boccaletti, Sapienza University of Rome, Italy
Syed M.M. Bokhari, Commscope, U.K.
Duong Bui, Chung Yuan Christian University, Taiwan
Juan Camarillo-Peñaranda, Universidad de los Andes, Colombia
Zehong Cao, University of Tasmania, Australia
Paul Cardinal, Shell Oil Company, USA
Rahul Chakraborty, North Carolina State University, USA
Vineet P Chandran, IIT Delhi, India
Suresh Chavhan, VIT, India
Ci Chen, Guangdong University of Technology, China
Jiang Cheng, Southwest Minzu University, China
Po-Tai Cheng, National Tsing Hua University, Taiwan
Pradhan, Chittaranjan, IIT Bhubaneswar, India
Morshed Chowdhury, Deakin University, Australia
Diego Colón, University of São Paulo, Brazil
Ke Dai, Huazhong University of Science and Technology, China
Mir Sayed Shah Danish, University of the Ryukyus, Japan
Dharmendra Dheer, Indian Institute of Technology Bombay, India
Suryanarayana Doolla, Indian Institute of Technology Bombay, India
Carlos Estevez, Schlumberger Katy Drilling Software Center, USA
Deepak Fulwani, Indian Institute of Technology Jodhpur, India
Jianlei Gao, Beijing Institute of Technology, China
Albrecht Gensior, TU Dresden, Germany
Mohammad Ghiasi, Shiraz University of Technology, Iran
Arup Goswami, Indian Institute of Technology Roorkee, India
Chunsheng Gu, China
Hany Habib, Florida International University, USA
Mohammad Hammoudeh , U.K.
Wei He, University of Science and Technology Beijing, China
Xiuqiang He, China
Wassila Issaadi, Algeria
Azeem Irshad, International Islamic University, Pakistan
Rafiqul Islam, Charles Sturt University, Australia
Yu Jiang, Tsinghua University, China
Qi Jiang, China
Zheming Jin, Aalborg Universitet, Denmark
Alireza Jolfaei, Australia
Imtiaz Hussain Kalwar, DHA Suffa University, Pakistan
Debopoma Kar Ray, MCKV Institute of Engineering, India
Kayes Kayes, La Trobe University, Australia
Seema Kewat, Indian Institute of Technology Delhi, India
Charalambos Konstantinou, USA
Charalampos S. Kouzinopoulos, CERTH, Greece
Kannan Krithivasan, SASTRA University, India
C. C. Kuo, National Taiwan University of Science and Technology, Taiwan
Baowen LIU, China
George Lazaroiu, University Politehnica of Bucharest, Romania
Yaran Li, University of New South Wales, Australia
Yitao Liu, Shenzhen University, China
Jinhong Liu, China
Felipe Lopes, Brazil
Misael Lopez-Ramirez, Universidad de Guanajuato—Campus Irapuato-Salamanca, Mexico
Yong Lu, China
Yang Lu, Old Dominion University, USA
Om Malik, University of Calgary, Canada
David Mazur, Rockwell Automation, USA
Lasantha Meegahapola, RMIT University, Australia
Subhankar Mishra, National Institute of Science Education and Research, India
Thomas Morrell, POWER Engineers, Inc., USA
Kashem Muttaqi, University of Wollongong, Australia
S. M. Muyeen, Curtin University, Australia
Zhijie Nie, USA
Clifton Oertli, NEI, USA
Pouya Ostovari, San Jose State University, USA
Aafaf Ouaddah, INPT, Morocco
Zeeshan Pervez, University of the West of Scotland, U.K.
Dechang Pi, China
Nawab Muhammad Faseeh Qureshi, Sungkyunkwan University, South Korea
M.M.A. Rahman, Grand Valley State University, USA
Akshay Rathore, Concordia University, Canada

Ahmed Majed Saif, Università degli Studi dell'Aquila, Italy
Nor Surayahani Suriani, Universiti Tun Hussein Onn Malaysia, Malaysia
Mohammad Sadeghi, Carleton University, Canada
M. K. Saini, Deenbandhu Chhotu Ram University of Science and Technology, India
Saleh Saleh, University of New Brunswick, Canada
Milad Salem, University of Central Florida, USA
Anik Samanta, Indian Institute of Technology Kharagpur, India
Chet Sandberg, C L Sandberg & Associates, LLC, USA
Sadeep Sasidharan, USA
Hemant Saxena, Delhi Technological University, India
Karim G. Seddik, The American University in Cairo, Egypt
Satar Seifollahi, Victorian Institute of Technology, Australia
Geeta Sharma, Lyallpur Khalsa College of Engineering, India
Gautam Srivastava, Brandon University, Canada
Anurag Srivastava, Washington State University, USA
Yogesh Tatte, Visvesvaraya National Institute of Technology, India
Mohd Tauseef Khan, Rajkiya Engineering College Banda, India
Sanjay Tolani, Sardar Vallabhbhai National Institute of Technology, India
Gang Wang, University of Connecticut, USA
Jeremy D. Watson, University of Cambridge, U.K.
Jun Wu, Shanghai Jiao Tong University, China
Fan Wu, Marquette University, USA
Xianyong Xiao, China
Yang Xiao, University of Alabama System, USA
Muhammad Yousaf, University of Wollongong, Australia
Fuqing Yuan, UiT Norges Arktiske Universitet, Norway
Leyou Zhang, Xidian University, China
Cheng Zhang, Waseda University—Nishiwaseda Campus, Japan
Xuyun Zhang, The University of Auckland, New Zealand

2020 *Special Issue Advanced Approaches and Applications for Electric Vehicle Charging Demand Management*

Guest Editor: Wei-Jen Lee, University of Texas at Arlington, USA
Guest Editor: Goran Strbac, Imperial College London, U.K.
Associate Editors:
Ali Bidram, University of New Mexico, USA
Payman Dehghanian, George Washington University, USA
Zhaohao Ding, North China Electric Power University, China
Hua Geng, China
Zechun Hu, Tsinghua University, China
Mahesh Illindala, Ohio State University, USA
Franklin Quilumba, Oncor Electric Delivery Co LLC, USA
Piampoom Sarikprueck, King Mongkut's Institute of Technology Ladkrabang, Thailand
Fei Teng, Imperial College London, U.K.
Ming Yang, Power, China
Reviewers:
Bibhu Prasad Padhy, Indian Institute of Technology Ropar, India
Roghieh A.Biroon, Clemson University, USA
T Abhiram, Osmania University, India
Moses Acquah, University of Ghana, Ghana
Gonzalo Arturo Alonso Orcajo, University of Oviedo, Spain
Syed Muhammad Arif, New Zealand
Sima Aznavi, University of Nevada Reno, USA
Avishan Bagherinezhad, University of Utah, USA
Hao Bai, Universite de Technologie de Belfort-Montbeliard, France
Tamara Becejac, Pacific Northwest National Laboratory, USA
Mohammed Benidris, University of Nevada Reno, USA
Diptarshi Bhowmick, Jadavpur University, India
Narayan Bhusal, University of Nevada Reno, USA
Fabio Bruzzese, Politecnico di Torino, Italy
Siqi Bu, Hong Kong Polytechnic University, Hong Kong
Hsueh-Hsien Chang, Taiwan
Luis Caro, Universidad de los Andes, Colombia
Vineet P Chandran, IIT Delhi, India
Zheyuan Cheng, North Carolina State University, USA
Sungyun Choi, Korea University, South Korea
Yan Cui, Tsinghua University, China
Antonio De Paola , U.K.
Sonny Dela, Nestle, USA
Xiaohong Dong, China
Hassan Eldeeb, Florida International University, USA
Poria Fajri, University of Nevada Reno, USA
Sidun Fang, Nanyang Technological University, Singapore
Abbas Fattahi, Iran
Chen Feixiong, Fuzhou University, China
Farzad Ferdowsi, Louisiana State University, USA
Zihan Gao, University of Tennessee, USA
Pudong Ge, Imperial College London, U.K.
Mohammad Ghiasi, Shiraz University of Technology, Iran
Hessam Golmohamadi, Iran
Xun Gong, Canada
Yunjie Gu, Imperial College London, U.K.
Chenghong Gu, University of Bath, U.K.
Vivekananda Haldar, Instiute of Engineering & Management, India
Zechun Hu, Tsinghua University, China
Dan Hu, Iowa State University, USA
Da Huo, Newcastle University, U.K.
William Infante, The University of Sydney, Australia
Amirreza Jafari, Iran
Seung Hyun Jeon, Korea Advanced Institute of Science and Technology, South Korea
Nirudh Jirasuwankul, Thailand
Patricia Jota, CEFET-MG, Brazil
Hazem Karbouj, Indian Institute of Technology Bombay, India
Tohid Khalili, University of New Mexico, USA
Irfan Khan, Texas A&M University System, USA
Ali Khorasani Ferdavani, Nanyang Technological University, Singapore
Mohammad Khoshjahan, Texas A&M University College Station, USA
Mongkol Konghirun, King Mongkut's University of Technology Thonburi, Thailand
Chun Sing Lai , U.K.

Paolo Lazzeroni, Istituto Superiore sui Sistemi Territoriali per l'Innovazione, Italy
Zachary J. Lee, California Institute of Technology, USA
Kangping Li, North China Electric Power University, China
Yong Li, Hunan University, China
P. Li, China
Yuanzheng Li, China
Zhengmao Li, Nanyang Technological University, Singapore
Xiaodong Liang, University of Saskatchewan, Canada
Zhirui Liang, Xi'an Jiaotong University, China
Yanchang Liang, China
Zhe Lin, China
Hui Liu, Guangxi University, China
Yun Liu, Shenzhen University, China
Jiayan Liu, TU Dortmund, Germany
Ren Liu, Washington State University, USA
Haocheng Luo, Tsinghua University, China
Ziming Ma, Tsinghua University, China
Khizir Mahmud, University of New South Wales, Australia
Matteo Manganelli, University of Parma, Italy
Seyedmahdi Moghadasi, University of North Carolina at Charlotte, USA
Yifen Mu, Academy of Mathematics and Systems Science, China
Yunfei Mu, Tianjin University, China
Subrata Mukhopadhyay, Guru Tegh Bahadur Institute of Technology, India
Worawat Nakawiro, Thailand
Masood Parvania, University of Utah, USA
Bala Sai Kiran Patnam, Indian Institute of Technology Gandhinagar, India
Shahinur Rahman, University of Alabama System, USA
Alireza Rezvani, Islamic Azad University Saveh Branch, Iran
Intisar Ali Sajjad, University of Engineering and Technology, Pakistan
Farshid Salehi, University of Texas at Arlington, USA
Farhad Samadi Gazijahani, Iran
Piampoom Sarikprueck, King Mongkut's Institute of Technology Ladkrabang, Thailand
Chengcheng Shao, Xian Jiaotong University, China
Jie Shi, University of Jinan, China
Denis Sidorov, Melentiev Energy Systems Institute, Russian Federation
Jyotsna Singh, Malaviya National Institute of Technology, India
Joao Soares, Instituto Politecnico do Porto Instituto Superior de Engenharia do Porto, Portugal
Su Su, China
Warut Suampun, King Mongkut's Institute of Technology Ladkrabang, Thailand
Uthane Supatti, Kasetsart University, Thailand
Wen Shan Tan, Monash University—Malaysia Campus, Malaysia
Nathaniel Tucker, UCSB, USA
Berkay Turan, UCSB, USA
Zhiqiang Wan, University of Rhode Island, USA
Jianxiao Wang, North China Electric Power University, China
Mingqiang Wang, Shandong University, China
Guibin Wang, China
Zhaoyu Wang, Iowa State University, USA
Shengyi Wang, Temple University, USA
Bo Wang, The George Washington University, USA
Yue Xiang, China
Ruifeng Yan, University of Queensland, Australia
Xiaohe Yan, University of Macau, Macao
Zhile Yang, Shenzhen Institutes of Advanced Technology, China
Yujian Ye, Imperial College London, U.K.
Qian Zhang, Chongqing University, China
Yumin Zhang, Shandong University, China
Shenxi Zhang, Shanghai Jiao Tong University, China
Xin Zhang, Cranfield University, U.K.
Xi Zhang, Imperial College London, U.K.
Zhenyuan Zhang, The University of Texas at Arlington, USA
Qianzhi Zhang, Iowa State University, USA
Jie Zhang, University of Texas at Dallas, USA
Zhuoli Zhao, South China University of Technology, China
Tianyang Zhao, Nanyang Technological University, Singapore
Long Zhao, University of Texas at Arlington, USA
Bining Zhao, Ohio State University, USA
Chiyang Zhong, Georgia Institute of Technology, USA
Guanting Zhou, Shanghai University of Electric Power, China
Yue Zhou, Cardiff University, U.K.
Feng Zhu, North China Electric Power University, China
Shenli Zou, University of Maryland, USA