

## Noteworthy Scholarly Contributions/Activities

- [1] **Guest Speaker** on the topic "Cyber Resilient Wind Turbine Generator Control System" at the IEEE Day held at the Rajshahi University of Engineering and Technology (RUET), Bangladesh, December 1-2, 2023, Rajshahi University of Engineering and Technology (RUET), Bangladesh.
- [2] **Organizer and Speaker** of the Workshop on Cyber Resilient Electric Vehicle Charging Station & Critical Infrastructure, Engineering Auditorium, University of Memphis, USA, August 25 2023, Engineering Auditorium of the University of Memphis, USA.
- [3] **Guest Editor** for a special issue titled ""Cost-Effective and Intelligent Controller Based Design for Wind and Photovoltaic Power Generation Systems" for publication at the MDPI journal of Energies, February 2023.
- [4] **Keynote Speaker** on the topic "Cyber Secure 5G-Enabled Charging Station and Dynamic Wireless Charging for Electric Vehicles" at the 4th International Conference on Electrical, Computer & Telecommunication Engineering (ICECTE), Rajshahi University of Engineering and Technology (RUET), Bangladesh, 29-31 December, 2022.
- [5] **Guest Speaker and Panelist**, 12th Annual Mid-South Cybersecurity Summit, The University of Memphis, November 04, 2022.
- [6] **Invited Speaker** on the topic "Power Quality Aspects and Solutions During Renewable Energy Integration" at the IEEE-PES/IAS Kansas City Section Seminar on "OFF-SHORE WIND AND CHALLENGES IN OFF-SHORE WIND AND RENEWABLE POWER INTEGRATION", May 10, 2022, Virtual, IEEE-PES/IAS Kansas City Section.
- [7] **Organizer** of the Smart Grid Security Workshop, March 25 2022, The University of Memphis, USA.
- [8] **Keynote Speaker** on the topic "Cyber-Security Issues and Solutions to Distributed Energy Resources" at the 2nd International Conference on Advancement in Electrical and Electronic Engineering-(ICAEEE 2022), Dhaka University of Engineering and Technology (DUET), Bangladesh, 24-26 February, 2022.
- [9] **Invited Speaker** on the topic "Cyber Secure and Resilient Photovoltaic (PV)-Battery Energy Storage System Connected to Power Distribution Grid", Jack Voltaic Conference, 24-25 February, 2022, The Citadel College, Charleston, South Carolina, USA.
- [10] **Associate Editor**, IEEE Transactions on Energy Conversion, January 2021 to present.
- [11] **Lead Guest Editor** for a special issue titled "Selected Papers from the 2020 2nd International Conference on Smart Power & Internet Energy Systems (SPIES2020)" for publication at the IET-GTD journal, January to December 2021.
- [12] **Keynote Speaker**, 2nd International Conference on Robotics, Electrical, and Signal Processing Techniques (ICREST)21, American International University Bangladesh (AIUB), Bangladesh, January 5-7, 2021.
- [13] **Publication Chair**, 2nd International Conference of Smart Power and Internet Energy Systems (SPIES) 2020, Bangkok, Thailand, September 15-18, 2020.

- [14] **Associate Editor**, IEEE Transactions on Sustainable Energy, January 2020 to present.
- [15] **Editor**, MDPI Journal of Electronics - September 2020 to Present.
- [16] **Keynote Speaker**, 3rd International Conference of Electrical, Computer and Telecommunication Engineering (ICECTE) 2019, Rajshahi University of Engineering and Technology (RUET), Bangladesh, December 26-28, 2019.
- [17] **Member of International Advisory Committee**, 3rd International Conference of Electrical, Computer and Telecommunication Engineering (ICECTE) 2019 - Rajshahi University of Engineering and Technology (RUET), Bangladesh, December 26-28, 2019.
- [18] **Editor**, Journal of Frontiers in Energy Research (Smart Grid Section), September 2019 to present.
- [19] **Judge** of poster session at the IEEE PES General Meeting, Atlanta, USA, August 04-08, 2019.
- [20] **Guest Associate Editor**, Joint Special Issue on "Power Conversion & Control in Photovoltaic Power Plants" organized by both IEEE Transactions on Energy Conversion (IEEE TEC) and IEEE Journal of Emerging and Selected Topics in Power Electronics (IEEE JESTPE), 2018.
- [21] **Invited speaker** on the topic "Converting Graduate Student's Innovative Research Into Patents", Graduate Professional Development Seminar, UofM, February 28, 2018.
- [22] **Member of International Advisory Committee**, 2<sup>nd</sup> International Conference of Electrical and Electronic Engineering (ICEEE), Rajshahi University of Engineering and Technology (RUET), Bangladesh, December 19-21, 2017.
- [23] **Invited speaker** on the topic "Power System Curriculum Offers on-the-Job Training Option", DEED/APPA Webinar, October 24, 2017.
- [24] **Editor**, Journal of IET Generation, Transmission and Distribution (IET-GTD), 2017 to present.
- [25] **Judge** of poster session at the IEEE PES General Meeting, Chicago, USA, July 16-20, 2017.
- [26] **Chair** of two sessions at the 31st Annual National Conference on Undergraduate Research (NCUR), University of Memphis, USA, April 6-8, 2017.
- [27] **Chairman** of the Sessions titled "Paper Track D5: Robotics and Computer Vision" and "Paper Track C6: Electromagnetics and Microwaves"- IEEE SoutheastCon 2017, Embassy Suites Hotel, Charlotte, NC, USA, March 30-April 02, 2017.
- [28] **Member of International Advisory Committee**, International Conference of Electrical and Electronic Engineering, Rajshahi University of Engineering and Technology (RUET), Bangladesh, November 4-6, 2015.
- [29] **Chairman** of the Session titled "Power System Stability I"-47th North American Power Symposium (NAPS), University of North Carolina at Charlotte, USA, October 4-6, 2015.
- [30] **Invited Speaker** on the topic "Research at Electric Power and Energy Systems (EPES) Laboratory", Department of Electrical and Computer Engineering Advisory Board Meeting, May 15, 2015.
- [31] **Invited Speaker** on the topic "Solutions to Power Quality and Stability Issues of Wind Generator Systems" at the California Renewable Energy and Storage Technology (CREST) Conference, University of California, Northridge, USA, February 21, 2015.
- [32] **Patent** on "Apparatus for Mitigation of Adverse Effects of Geomagnetically Induced Currents on Transformers", application no. 62093701, Applied on December 18, 2014, USA (under review)

- [33] **Editor, Journal of Technology and Economics of Smart Grids and Sustainable Energy**, Springer, 2014 to March 2022.
- [34] **Invited to review a Book Proposal** for CRC Press, Taylor & Francis Company (Book title: Power Quality Issues and Solutions with Simulation and Real-Time Results), Florida, USA, Fall 2014 semester.
- [35] **Organizing member** of the Workshop on Smart Grid, FedEx Institute of Technology, University of Memphis, USA, October 17, 2013.
- [36] **Invited Speaker** on the topic "Smart Grid Overview" at the Smart Grid Workshop, FedEx Institute of Technology, University of Memphis, USA, October 17, 2013.
- [37] **Patent** on "Wind Generator System with Multiple Turbines", application no. 61836694 (under review), Applied on 19th June, 2013, USA.
- [38] **Exhibition** on "Wind Generator System with Multiple Turbines", at the Research and Innovation Expo, FedEx Institute of Technology, University of Memphis, USA, October 03, 2013.
- [39] **Invited Speaker** on the topic "Electric Power Grid Security" at the SCADA Workshop, FedEx Institute of Technology, University of Memphis, USA, October 18, 2012.
- [40] **Exhibition on "Electric Power Grid Security" Research and Innovation Expo**, FedEx Institute of Technology, September 27, 2012.
- [41] **Invited speaker** on the topic "Analysis of Transient Stability and Power Quality Issues of Electric Power Grid", Department of Electrical and Computer Engineering, University of Memphis, Memphis TN, February 28, 2012.
- [42] **Invited Speaker** on the topic "Effects of Communication Delays in Electric Grid" at the Critical Infrastructure Protection (CIP) Seminar, University of Memphis, USA, October 07, 2011.
- [43] **Chairman** of the Session titled "Fuzzy control and intelligent techniques"-7th WSEAS International Conference on Power Systems, Beijing, China, September 15-17, 2007.
- [44] **Selected Chairman** of the Session titled "Power Generation and Distribution-TP-PG-5"-IEEE International Conference on Industrial Technology (ICIT), Gippsland, Australia, February 10-13, 2009.
- [45] **Invited Lecture** on "Wind Energy Systems", Invited by Dr. Krishna Chandra Mandal, University of South Carolina, USA, February 03, 2010 and February 10, 2011.
- [46] **Special Lecture** on "Improvement of Presentation Skills for International Papers", Changwon National University, South Korea, August 22, 2007.
- [47] **Special Lecture** on "International Collaboration Research for Minimization of Frequency Fluctuations of Wind Power System at Ulleong Island of South Korea", Renewable Energy Foreign Professional Workshop-2007, Ramada Plaza Hotel, Jeju Island, October 12-13, 2007.
- [48] **Reviewer (Transactions/Journals)**
- IEEE Transactions on Power Systems
  - IEEE Transactions on Energy Conversion
  - IEEE Transactions on Power Delivery
  - IEEE Transactions on Sustainable Energy
  - IEEE Transactions on Smart Grid
  - IEEE Transactions on Industry Applications

- IEEE Transactions on Control Systems Technology
- IEEE Transactions on Industrial Electronics
- IEEE Transactions on Power Electronics
- IEEE Systems Journal
- IEEE Transactions on Applied Superconductivity
- IEEE Open Access Journal of Electrical Power and Energy System
- International Journal of Electrical Power and Energy Systems
- Journal of IET Renewable Power Generation,
- Journal of IET Generation, Transmission and Distribution
- International Journal of Automation and Control (IJAAC)
- World Scientific and Engineering Academy and Society (WSEAS) Journal
- Journal of Zhejiang University-SCIENCE A
- Journal of Control Engineering Practice.
- Journal of Energies
- Journal of Technology and Economics of Smart Grid and Sustainable Energy
- Journal of Applied Energy
- Journal of SpringerPlus
- International Journal of Control
- Journal of Electrical Engineering
- Journal of Wind Engineering

[49] **Reviewer (International/National Conferences)**

- IEEE Power Engineering Society General Meeting (PESGM), August 2-7, 2020, Montreal, Canada.
- IEEE Power Engineering Society General Meeting (PESGM), August 4-8, 2019, Atlanta, GA, USA.
- IEEE Power Engineering Society General Meeting (PESGM), August 5-10, 2018, Portland, OR, USA.
- 2<sup>nd</sup> International Conference of Electrical and Electronic Engineering (ICEEE), Rajshahi University of Engineering and Technology (RUET), Bangladesh, December 19-21, 2017
- 49<sup>th</sup> North American Power Symposium (NAPS), West Virginia, September 17-19, 2017
- IEEE SoutheastCon, Charlotte, North Carolina, USA, March 30-April 02, 2017
- 12<sup>th</sup> Cyber and Information Security Research Conference (CISRC), Oak Ridge National Laboratory (ORNL), Tennessee, USA, April 4-6, 2017
- 31<sup>st</sup> Annual National Conference on Undergraduate Research (NCUR), University of Memphis, USA, April 6-8, 2017
- International Conference of Electrical and Electronic Engineering (ICEEE), Rajshahi University of Engineering and Technology (RUET), Bangladesh, November 4-6, 2015
- 47<sup>th</sup> North American Power Symposium (NAPS), University of North Carolina at Charlotte, USA, October 4-6, 2015
- 10<sup>th</sup> Cyber and Information Security Research Conference (CISRC), Oak Ridge National Laboratory (ORNL), Tennessee, USA, April 7-9, 2015
- IEEE Electric Ship Technologies Symposium (ESTS) 2011, April 10-13, Virginia, USA

- IEEE International Symposium on Circuits and Systems (ISCAS 2010), May 30-June 02, 2010, Paris, France.
- IEEE CCECE (Canadian Conference on Electrical and Computer Engineering) 2008
- Sixth International Conference on Power Electronics and Drive Systems (PEDS 2005), 28 Nov-1 Dec 2005, Kuala Lumpur, Malaysia.