Candidate for Member-at-Large, IAS Executive Board, 2022-2023

Dr. Irfan Khan is an Assistant Professor at the Department of Marine Engineering Technology with a joint appointment with the Electrical and Computer Engineering at Texas A&M College Station. He is the director of the Clean And Resilient Energy Systems (CARES) Lab that focuses on the reliability, sustainability, and security of the electric energy supply of electric vehicles. Dr. Khan is an affiliate faculty member with the TAMU Energy Institute and the TEES Smart Grid Center. Before joining TAMU in 2018, Dr. Khan received a Ph.D. in Electrical and Computer Engineering from Carnegie Mellon University USA. He has been fortunate to receive several grants from multiple funding agencies to work on marine electric distribution systems, electric vehicle fast charging, and electric microgrids. He has published more than 75 reputed journal and peer-reviewed conference papers in energy systems-related areas. He leads several committees at the departmental level, including the ABET committee, Faculty Evaluation Committee, and Curriculum committee.

Dr. Khan is a registered Professional Engineer (P.E.) with the State of Texas, USA. He is the Vice-Chair for the IEEE Galveston Bay Section (GBS) of Region 5. In addition, Dr. Khan held several leadership responsibilities at various international conferences, e.g., the registration chair at the 2019 IEEE sponsored International Symposium on Measurement and Control in Robotics, invited keynote speaker, and Technical Program Committee member at several conferences. He has organized several special sessions at various international conferences. Further, Dr. Khan is a regular reviewer of more than 30 reputed journals and conferences, wherein the year 2020, he reviewed more than 230 articles. He is also helping with editorial responsibilities at various journals, e.g., IEEE Transactions on Industry Applications, IEEE Access, Energies

IEEE Accomplishments & Activities

IEEE Publications:

My publications focus on industry applications such as power electronics-based power systems, marine energy systems, fast charging of electric vehicles, and cybersecurity of energy networks. I try to take a practical approach to implement current industry trends as applied to real-world applications.

IEEE Peer-Reviewed Conference Papers – 24
IEEE Peer Reviewed Journal Articles – 9
Total Peer-Reviewed Articles – 67

IEEE IAS Reviewing Experience:

IEEE IAS Reviewed Articles –111
IEEE Reviewed Articles – 250

IEEE Awards:

Awarded "Stepping Stone Award" at Stepping Stone Award Ceremony by IEEE Galveston Bay Section, July 2019

IEEE Editing Experience:

Lead Guest Editor IAS Special Issue on Fast, Super Fast and Ultra Super Fast Intelligent and Smart Charging Solutions for Electric Vehicles

IEEE Section Experience:

1. Vice-Chair Galveston Bay Section, Region 5
2. Vice-Chair PES Joint Chapter, Galveston Bay Section, Region 5

IEEE Committees Membership:

1. Member of Power and Energy Education Committee, Research Subcommittee since 2018
2. Member of Power and Energy Education Committee, Education Subcommittee since 2018

1. Volunteered as a proctor to guide and oversee competing teams for the IEEEXtreme 14.0 programming competition that hosted +7,300 participants on October 24, 2020
2. Invited Speaker at IEEE Professional Forum and Students' Poster Session, organized by the IEEE Galveston Bay Section on Saturday, November 16, 2019, at the University of Houston- Clear Lake, where I gave a talk on "Integration of Standalone Solar Home Systems for Off-grid Community Applications."
3. As vice-Chair of Galveston Bay Section, organized presentations, invited renowned experts to deliver presentations to GBS members.