



### **Speaker's Biography:**

**Amir Miragha** began his career in 1996 as a Research Engineer with the Electric Power Research Center (EPRC), where he researched flicker assessment of alloy steel plants. Between 1998 and 2003, he was with Niroo Research Institute (NRI), in different research and managerial positions in the areas of power quality, power plants, and scientific publishing. Since 2004, he has particularly focused on Smart Grids when he started exploring the newly-emerging concept of microgrid at ETH-Zurich. During his PhD program at Waterloo, he started with exploring the optimal planning and operation of energy hubs and integrated energy systems in the context of the hydrogen economy. Then he studied the mutual impacts of power systems and the transport sector. As part of his Post-Doctoral program at Waterloo, he investigated the grid impacts of plug-in hybrid and fuel cell vehicles. Between 2010 and 2015 at GE Grid Automation in Markham, Ontario, Canada, he started as an Application Engineer and then a Lead Application Engineer and finally an Engineering Technical Leader & Microgrid System Architect involved in R&D as well as New Product/Technology Introduction programs related to microgrids and distribution systems automation. While there he was also involved in several real-world microgrid projects in the US and Canada. Between 2015 and 2018, he had several technical/business leadership positions at BBS Access (Director of Technical Projects & Smart Grid Integration and Non-executive Director of Technology) and IOTSEG (Founder, CEO & CTO) in Singapore where he mainly concentrated on developing products for various building blocks of smart grids. Currently, he is a Deputy Director of Energy Research Institute at Nanyang Technological University (ERI@N) in Singapore. At ERI@N, he is the Principal Investigator of a grand project to research, develop, demonstrate and commercialize the next generation of distribution grid management platforms in view of the large deployment of DERs. He is a senior member of the IEEE and a member of the IEEE microgrid control task force. He is also an Adjunct Associate Professor at the University of Waterloo. He received a B.Sc. degree from the K. N. Toosi University of Technology, an M.Sc. degree from the KTH Royal Institute of Technology with a Master Thesis at ETH-Zurich, and a Ph.D. degree from the University of Waterloo, all in electrical engineering.