IEEE Sweden PES/PELS Chapter

Welcome to the Annual Meeting 2023 of the Joint PES/PELS Chapter!

Date: March 16th, 2023
Time: 15:30 - 17:30 CET (refreshments available from 15:00)
Location: Hybrid event at KTH Campus and Zoom
Registration: **by March 13th** in vTools
Location information and link for remote participation will be received upon registration.

Agenda:

- Activity Report 2022
- Presentation of the 2023 Board
- Updates from the Board
- PhD thesis award 2021-22
- *Keynote Speech by Prof. Xiongfei Wang*
- MSc thesis award 2022

Xiongfei Wang is currently a Professor at KTH Royal Institute of Technology and a part-time Professor at Aalborg University. From 2009 to 2022, he was full-time with Aalborg University, where he became a Professor and Leader of Electronic Power Grid (eGRID) Research Group in 2018. His research interests include modeling and control of power electronics converters, stability and power quality of power-electronic-based power systems, and high-power converters.

Dr. Wang serves as a Co-Editor-in-Chief for the IEEE Transactions on Power Electronics and as an Associate Editor for the IEEE Journal of Emerging and Selected Topics in Power Electronics (JESTPE). He was a member at large of Administrative Committee of IEEE Power Electronics Society (PELS) during 2020-2022. He received ten IEEE/IET Prize Paper Awards, the 2018 Richard M. Bass Outstanding Young Power Electronics Engineer Award, the 2019 IEEE PELS Sustainable Energy Systems Technical Achievement Award, the Clarivate Highly Cited Researcher during 2019-2021, and the 2022 Isao Takahashi Power Electronics Award. He is elevated to IEEE Fellow of 2023.

Powering the Future: Grid-Forming Converter Technology and Implementation
The electric power grid is currently undergoing a major transformation, driven by the massive use of power-electronic converters in renewable power generations, flexible AC and DC transmission systems, and industrial electrifications. The development and implementation of grid-forming converter technology represent a critical research area for ensuring the stability and resilience of modern power grids. This seminar will give a review of latest requirements for grid-forming capability, followed by an introduction of fundamental principles and implementations of grid-forming converters. The recent development and applications of grid-forming converters will also be discussed.

Welcome!
Ambra Sannino – Chair of the IEEE Sweden PE/PEL Joint Chapter