Title: Resonant Power Converters and its Applications

Description:
Resonant power converter as one of the most popular topologies in power electronics system. This topology is the key enabling technique for the high-frequency and high-efficiency applications and it can easily increase charm for various industrial and home devices. This special session aims offers an opportunity for both academic researchers and industrial engineers to exchange the latest simulation and/or experimental results, as well as the future development directions. Resonant power converters and its applications session cover a wide range of topics, specific emerging technology, and techniques survey that are connected to a common application. Topics of interest include, but are not limited to:

- Resonant power converter topologies;
- Analytical method for resonant power converter;
- Modelling and control for resonant power converter;
- Components and EMC designs for resonant power converter;
- Reviewing previous researches and techniques survey of resonant power converter;
- Applications of resonant power converter:
  - Wireless power transfer,
  - Induction heating,
  - Power-factor correction,
  - Agricultural devices,
  - Medical and biological devices,
  - High-gain power converter, and etc.
  - High-frequency inverter,
  - High-frequency rectifier, and etc.

Session chair
Name: Asist. Prof. Dr. Chainarin Ekkaravarodome
Affiliation: King Mongkut’s University of Technology North Bangkok (KMUTNB)
Email: chainarin.e@eng.kmutnb.ac.th