Title: Special Session on Wireless Power Transfer

Description: Wireless Power Transfer (WPT) is widely utilized in many applications after Nikola Tesla proposed its concept. It has become increasingly popular in various applications, such as electronic appliances electric vehicle (EV) charging, UAV, Autonomous Guided Vehicles (AGVs), consumer electronics, and robots. This special session therefore attempts to collect such latest idea, improvements, simulations and experimental results in wireless power transfer systems. Moreover, it is a good opportunity to open the floor for researchers, experts and students to share mentioned findings. This session is opening to welcome researcher, expert and student to submit their original contribution papers for review and publication. The topics of interest for submission are listed as following details:

Technical Areas
- Theories and techniques for wireless power transfer
  - Inductive power transfer
  - Capacitive wireless power transfer
  - Magnetic resonance
  - Other topics related to theories and technique for wireless power transfer
- Systems and devices for wireless power transfer
  - Coils, Resonant Devices, coil array, System modelling, design and simulation
  - Resonant converter topologies
  - Static and Dynamic Wireless charging
  - Applications of wireless power transfer (Electronics Appliances, EV, Drone, UAV, AUV, Sensors, etc)
  - Other topics related to systems and devices for wireless power transfer
- Industries issues for wireless power transfer and RF energy harvesting
  - Impact on health for user safety
  - Environmental effects
  - EMI/EMC, shielding
  - IoT and 5G
  - Information and Wireless Energy transfer techniques
  - Power conditioning and controlling
  - Other topics related to industries issues for wireless power transfer and RF energy harvesting

Session chair Name: Asist. Prof. Dr. Pattana Intani
Affiliation: Pathumwan Institute of Technology, Bangkok, Thailand
Email: pattana@pit.ac.th