Special Issue

Wireless Power Transfer for Smart Industrial, Biomedical and Home Applications

Message from the Guest Editors

This Special Issue will reflect the most recent theoretical and practical developments of wireless power research for smart industrial, biomedical, and home applications. Topics to be covered in this Special Issue include, but are not limited to, the following:

- Wireless power supply to distributed sensors and IoTs
- Wireless power supply to robotics and automation systems
- Wireless charging of AGVs (Automatic Guided Vehicles), materials handling and logistic systems
- Wireless power supply of biomedical sensors and actuators, heart pumps
- Wireless power supply in smart homes
- Wireless charging of mobile phones, pads, smart watches
- Static and dynamic EVs charging
- Wireless power transfer mechanism
- System modelling and power flow control
- Soft switching converter topologies
- Magnetic coupling design
- Capacitive coupling design
- New ferrites and dielectric materials
- Ultrasonic transducers for wireless power transfer
- Energy harvesting technologies
- Wireless power for smart grids
- Wireless energy network
- Bi-directional wireless interface for PV and wind energy integration.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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