



Advanced Technologies and Applications in Wireless Power Transfer Systems

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Message from the Guest Editors

Wireless power transfer (WPT) has rapidly advanced over the past decade and continues to do so. Under the attention of more and more researchers, this technology has shown broad application prospects in different fields from milliwatts to megawatts and from near-field to far-field, such as sensors, medical implants, consumer electronics, household appliances, electric vehicles, aerospace, ocean exploration, railway applications, etc. This Special Issue focuses on the recent theoretical and applied research achievements of WPT, including, but not limited to, system sub-modules such as power converters, compensation networks, coupling interfaces, controllers, etc., as well as auxiliary functions such as power/signal parallel transmission, foreign-object detection, position monitoring, etc.

keywords:

- wireless power transfer
- inductive power transfer
- contactless power transfer
- wireless charging
- capacitive power transfer
- energy harvesting
- power electronics
- magnetic field coupling
- electric field coupling





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Message from the Editor-in-Chief

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