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Future Development in Wireless Power Transfer Technology for Internet of Things (IoT) in Smart Grid

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Deadline for manuscript submissions:
closed (15 December 2023)

Message from the Guest Editors

Dear Colleagues,

Smart grids are electrical energy networks, whereas the Internet of Things (IoTs) is a communication network that will be able to better support electricity generation and distribution networks in the near future. New advances in wireless power transfer (WPT) promise to link the two networks, allowing for the intelligent integration of power grids and communication networks. Thus, it is with great pleasure that we present this Special Issue, "Future Development in Wireless Power Transfer Technology for Internet of Things in Smart Grid". We are inviting original manuscripts presenting recent advances in this area, placing special emphasis on the following topics:

- New and existing improvements for inductive and capacitive power transfer (IPT/CPT) techniques and methodologies;
- Internet of Things (IoTs) for WPT;
- Communication systems for WPT;
- WPT with smart grid technology;
- Inverter/converter designs and controls for wireless power applications;
- Highly resonant coupling topologies;
- Applications in special marine/air/space environments and other complex scenarios, i.e., WPT systems for coal mines and oil extraction;
- V2G WPT technology;

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Editor-in-Chief

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Message from the Editor-in-Chief

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