

Special Issue

Future Wireless Power Transfer and Communications

Message from the Guest Editor

Dear colleagues, Wireless power transfer (WPT) technologies have been considered as promising solutions for supplying power to mobile devices. In particular, radio frequency (RF) based WPT technologies have recently attracted a great amount of research interest, since the WPT can remove the last wire of mobile devices and provide real mobility for Internet of Things (IoT) environments. Since RF signals are simultaneously exploited for wireless communications, i.e., wireless information transfer (WIT), a joint optimization of WPT and WIT should be carefully designed. This Special Issue will focus on emerging joint technologies of WPT and communications. Potential topics include but are not limited to the following:

- Simultaneous wireless power and information transfer (SWIPT);
- Wireless powered communication networks (WPCN);
- WPT hardware testbed and implementation;
- Safety issues for WPT;
- Low power communication protocol for WPT;
- Far-field RF energy transfer circuits and antennas;
- Near-field energy transfer technologies.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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