

Special Issue

Wireless Power Transfer Modelling Methods and Related Applications

Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances related to the Modelling theories, methods and platforms of WPT systems. Topics of interest for publication include, but are not limited to:

- Equivalent circuit models of WPT;
- Electromagnetic field Modelling and simulations for inductive or magnetic resonance systems;
- Coil design and optimization models;
- Channel Modelling for microwave propagation of remote WPT systems;
- mmWave, Terahertz and reconfigurable intelligent surface (RIS) propagation Modelling for WPT;
- Optimization methods based on the WPT models;
- AI-based Modelling and related control methods;
- Communication Models of simultaneously wireless information and power transfer systems;
- Theoretical models of wireless powered localization network;
- New models for WPT IC design;
- Simulation software for WPT systems.

Look forward to your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (15 February 2024)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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