

Special Issue

RF Energy Harvesting and Wireless Power Transfer

Message from the Guest Editors

This Special Issue aims to provide a comprehensive overview of state-of-the-art technologies and theories of EH and WPT in practical wireless networks.

Prospective authors are invited to submit original manuscripts on topics including, but not limited to:

- RF EH for low-power wireless transceiver circuits in communication systems;
- EH interface circuit design for light-weight devices;
- Antenna, waveform and signal design for EH and WPT;
- Network architecture and protocol design for RF EH and WPT;
- Analytical models of EH and WPT in network architecture design;
- RF EH and WPT in unicast, multicast, broadcast and relay channels;
- RF EH and WPT with cooperative communications, multiple-input multiple-output (MIMO), massive MIMO and mmWave technologies;
- SWIPT in wireless sensor networks, device-to-device communications, Internet-of-Things (IoT) and cellular networks (5G and beyond);
- Security in SWIPT systems;
- Experiment and prototype of RF EH, WPT and/or SWIPT.

Welcome to contribute!

Guest Editors

Dr. Quoc-Tuan Vien

Dr. Ca V. Phan

Dr. Antonino Masaracchia

Deadline for manuscript submissions

closed (15 December 2020)



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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).