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RF Energy Harvesting and Wireless Power Transfer for IoT

Guest Editors:

Dr. Onel Luis Alcaraz López
Faculty of Information Technology and Electrical Engineering, University of Oulu, 90570 Oulu, Finland

Dr. Katsuya Suto
Graduate School of Informatics and Engineering, The University of Electro-Communications, Tokyo 183-8585, Japan

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Message from the Guest Editors

Internet of Things (IoT) technologies are becoming the main connectivity backbone of a future data-driven sustainable society. In this regard, energy harvesting (EH) techniques are an attractive solution, as they allow externally recharge batteries, and thus may constitute key components of future sustainable IoT networks.

This Special Issue focuses specifically on radio-frequency (RF) EH and wireless power transfer (WPT) technologies, which have a strong potential for energizing low-power IoT deployments. Despite all the technological advances in RF-EH and WPT in recent years, there are still many challenges and open problems to resolve, especially those related to increasing the end-to-end system efficiency, supporting ubiquitous energy accessibility with stringent quality-of-service guarantees, holistic integration with wireless information transfer systems, and transparently complying with electromagnetic field radiation constraints to mitigate the fear of wireless. Therefore, novel RF-EH/WET mechanisms and technological developments are still necessary to cope with these challenges and promote more standardization attempts and commercial solutions/products.

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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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