



Energy Harvesting for IoT Networks

Guest Editor:

Dr. Dimitrios Zorbas

1. Tyndall National Institute,
University College Cork, T12R5CP
Cork, Ireland
2. School of Engineering and
Digital Sciences, Nazarbayev
University, Nur-Sultan 010000,
Kazakhstan

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Message from the Guest Editor

The Internet of Things (IoT) networks consist of hundreds of tiny wireless devices, with sensing capabilities that are usually powered by batteries. These devices not only have limited power resources, but very often they are deployed in inaccessible places, making their battery replacement a difficult and costly task. To alleviate the energy demands of IoT devices, the use of energy harvesting techniques has recently gained a lot of ground. Though tiny sometimes, the amount of power produced by ambient and natural resources is enough to extend the battery lifetime and, thus, reduce the operating costs.

Despite the recent big steps to develop efficient energy harvesting solutions, a number of challenges still exist related to the miniaturisation of harvesters, their effectiveness on a broad range of applications, the optimisation of costs, and the long-term evaluation of the solutions.

This Special Issue aims to report topics on recent advances on energy harvesting to support wireless IoT networks. We are seeking both innovative works in unexplored and/or emerging topics on energy harvesting fundamentals, design, evaluation, and experimentation.





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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

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
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