Special Issue

Low-Power RF Energy Harvesting for IoT Devices

Message from the Guest Editors

An ocean of electromagnetic waves surrounds us. Countless wireless applications illuminate power to serve numerous customers. Most of this energy remains unused, since usually a client captures only a very small fraction of the transmitted power. Thus, it is an engineering challenge to capture this energy and recycle it by suppling small electrical devices, such as Internet-of-Things (IoT) devices.

Authors are invited to submit regular papers following the JLPEA submission guidelines, within the remit of this Special Issue call. Topics include but are not limited to:

- High-efficiency and high-sensitivity low-power RF energy harvesting for IoT devices;
- Power management circuits for low-power RF energy harvesting systems;
- RF energy harvesting surfaces for low ambient power density:
- Metamaterial-inspired and/or Huygens-based geometries for low ambient power density;
- Emerging technologies.

Guest Editors

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Dr. Michele Caselli

Deadline for manuscript submissions

closed (31 July 2020)



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About the Journal

Message from the Editor-in-Chief

Journal of Low Power Electronics and Applications is an open access journal which provides an advanced forum for rapid dissemination of innovative research and important results in all aspects of low power electronics and design.

It publishes reviews, regular research papers and short communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. The full experimental details must be provided so that the results can be reproduced.

Editor-in-Chief

Dr. Davide Bertozzi

Reader in Advanced Processing Technologies, Department of Computer Science, University of Manchester, Manchester M13 9PL, UK

Author Benefits

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 23.4 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).

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