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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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 (ISSN 2079-9268) is an open access journal which provides an advanced forum for the studies of electronics for low power applications. A special emphasize is made on ultralow power bio-medical applications. 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. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

Editor-in-Chief

Dr. Davide Bertozzi
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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).

Journal Rank:

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