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# **Battery-Free IoT Devices and Networks**

Guest Editor:

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Deadline for manuscript submissions:

closed (10 December 2021)

## Message from the Guest Editor

This Special Issue solicits high-quality unpublished work on recent advanced in battery-free IoT devices, computing, communications and networking. The main topics of interest include, but are not limited to, the following:

- Power management concepts, algorithms and circuits for energy-harvesting on battery-free devices
- Novel (hybrid) energy harvesting circuits, architectures and concepts for battery-free devices
- Synchronization techniques for intermittently powered devices
- Communications and networking protocols (e.g., channel access, routing) for battery-free devices
- Online measurement and prediction of device energy lifecycles
- Hardware and software concepts, algorithms and circuits for intermittent computing
- Scheduling algorithms and operating system support for intermittent computing models
- Architectures and standards for the Internet of Battery-Free Things
- Performance modelling and evaluation of batteryfree devices and networks
- Battery-free device and network prototypes, realworld deployments, and performance evaluations













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