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Towards Sustainable and Energy-Neutral Internet-of-Things

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Deadline for manuscript submissions:
closed (15 June 2025)

Message from the Guest Editors

This SI aims to delve into a diverse array of potential technologies and methodologies, encompassing Radio-Frequency (RF) Wireless Power Transfer (WPT), advancements in 6G networks, distributed architectures, and innovative energy harvesting techniques. We seek contributions that not only address the challenges of energy neutrality in IoT devices but also pioneer new approaches and solutions to propel the field forward and contribute to sustainable development.

One of the critical aspects we aim to tackle in this Special Issue is the extension of IoT device lifetimes, which poses a significant challenge on the pathway to more sustainable IoT ecosystems. Examples of research directions are modular IoT devices, where parts of the devices are recuperated and repaired, and end-of-life time recovery systems. Studies regarding life-cycle analysis are imperative towards sustainable IoT. Moreover, from pioneering localisation techniques to novel methods of powering and communicating with IoT devices, we invite submissions that challenge existing paradigms and expand the horizons of sustainable wireless technologies.

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Message from the Editor-in-Chief

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