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Novel Architectures and Applications for Artificial Intelligent and Internet of Things Ecosystems

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Deadline for manuscript submissions:
closed (10 March 2023)

Message from the Guest Editors

Dear Colleagues,

Internet of Things (IoT) and big data applications drive Artificial Intelligence (AI) technology development. Devices for IoT applications provide sensing, actuation, processing, and communication at low-power levels and at low cost. Thus, they must be resilient in the face of harsh environments, challenging communication requirements, and long lifetimes that may reach beyond the useful lives of the individual nodes. This SI explores the design of novel circuits and systems for future architectures and applications of the IoT era.

Emerging IoT devices and applications produce increasingly high volumes of data. At the same time, they require significant computational requirements that often do not fit into the stringent power envelopes of existing IoT devices. In this SI, the emerging hierarchical IoT structure and its cross-layer collaboration schemes to sense and process massive data will be investigated.

The SI topics of interest include but are not limited to:

- Energy-aware circuits and systems for IoT applications;
- Circuits and systems for big data processing;
- Sensory circuits and systems for the IoT;
- Communications circuits and systems for the IoT.

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Message from the Editor-in-Chief

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