Special Issue

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

Message from the Guest Editors

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.

Guest Editors

Dr. Mostafa Rahimi Azghadi

College of Science & Engineering, James Cook University, Townsville City QLD 4814, Australia

Dr. Kun-Chih Chen

Department of Computer Science and Engineering, National Sun Yat-Sen University, Kaohsiung 80421, Taiwan

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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