Special Issue

Low-Power AI Embedded Systems

Message from the Guest Editor

The development of powerful microcontrollers in robust embedded boards with cameras, sensors, and microphones poses a large challenge for various industries, as these electronic devices collect a large amount of data in different forms and process the data in servers that are exposed to malicious users who can hear the communication channels and access sensitive information. Furthermore, sending data to servers without energy-saving filters is expensive. In this scenario, decentralized computational architectures provide new techniques that, with machine learning models, might remain close to the user by keeping relevant information on the device and exchanging models instead of data. This SI calls for high-quality papers regarding machine learning algorithms and applications in IoT environments or embedded systems. Topics include, but are not limited to, the following:

- Smart sensors
- Transfer learning applications
- Embedded systems design
- Power consumption analysis
- Outlier detection
- Keyword spotting
- Reinforcement learning in robots
- IoT monitoring systems
- Time series applications with sensors
- Fault diagnosis and localization
- Intelligent systems
- Classification images

Guest Editor

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Deadline for manuscript submissions

closed (15 October 2023)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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