Special Issue

Advances in Adaptive Ultra-Low-Power Electronics

Message from the Guest Editor

This Special Issue invites contributions in adaptive ULP electronics for sensing, actuating, amplification, signal conditioning, and data converters, which incorporate insights from multiple fields. For instance, circuits that take advantage of the temporal and spectral properties of signals, such as burstiness, bandwidth limitations, and predictability, are especially welcomed. Contributions with applications to wearable and medical devices are also encouraged. The topics of interest include, but are not limited to the following:

- Adaptive analog filters, amplifiers, and voltage regulators;
- Adaptive biasing amplifiers;
- Adaptive analog techniques for signal processing;
- Novel adaptive data converter architectures;
- Level-crossing analog-to-digital converters and continuous time-signal processing;
- Machine Learning and Deep Learning techniques for adaptive circuit design and calibration;
- Domain-specific low-power analog circuit synthesis;
- Bioinspired adaptive circuit architectures;
- Biomedical applications of ULP adaptive electronics;
- Adaptive sensors and actuators.

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2024)

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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.

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