Special Issue

Recent Advancements in Approximate Ubiquitous Computing

Message from the Guest Editor

Approximate computing, whereby the resulting quality is deliberately sacrificed in a controlled manner in order to reduce the amount of computation, has suddenly moved into the spotlight as a viable technique for reducing the resource appetite and ensuring that advanced algorithms of the future run on ubiquitous computing devices. In this Special Issue, we are particularly interested in showcasing recent advancements in the area of approximate ubiquitous computing, as well as in presenting recent results analyzing the impacts that such techniques might have on future applications, on the sustainability of ubiquitous computing, and on the way ubiquitous computing solutions interact with human users. The topics of interest include, but are not limited to:

- Approximate circuits for ubiquitous computing;
- Approximate computing techniques for modern mobile and wearable devices;
- Approximation-enabled deep learning for resource-constrained devices;
- Hardware–software co-design for approximate mobile and IoT systems;
- Context-aware approximation systems;
- Human perception and approximate computing.

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Deadline for manuscript submissions

closed (28 February 2022)

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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