



## Recent Advancements in Approximate Ubiquitous Computing

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### Message from the Guest Editor

Dear Colleagues,

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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## Message from the Editor-in-Chief

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