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Selected Papers from IEEE S3S Conference 2017

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Deadline for manuscript
submissions:
closed (28 February 2018)

Message from the Guest Editors

For more than two decades, low-power consumption has been paramount for integrated circuits (ICs) and systems-on-a-chip (SoCs). In modern sub-100 nm technologies, low-power design flows have matured with techniques, such as clock/power gating, multi-Vt/Vdd assignment, and dynamic frequency/voltage scaling, being considered as mainstream. However, further power savings are still needed for extremely power-constrained applications, such as green computing, mobile wireless communications, IoT sensor nodes, and biomedical devices. Feasible ways of achieving further power savings include, for example, sub-threshold and ultra-low-voltage operation, SOI technology and circuits, and 3-D and heterogeneous integration. The 2017 IEEE Unified S3S (SOI-3D-SubVt) Conference event gathered researchers studying the aforementioned three topics to share their views and advances regarding lower-power and more efficient ICs and SoCs. This Special Issue is the seventh Special Issue dedicated to extended versions of papers from the IEEE S3S Conference 2017 based on their low-power content and their scientific/technical excellence.



mdpi.com/si/12134

Special Issue



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Message from the Editor-in-Chief

Journal of Low Power Electronics and Applications (ISSN 2079-9268) is an open access journal which provides an advanced forum for the studies of electronics for low power applications. A special emphasize is made on ultralow power bio-medical applications. It publishes reviews, regular research papers and short communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

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