

## Special Issue

# Energy Efficient Circuit Design Techniques for Low Power Systems

### Message from the Guest Editor

Low power consumption enables extension of system lifetime and also reduces the total system size by using smaller energy storage devices (battery or supercapacitor). One basic technique to reduce the average power consumption is “duty cycle” switching the operation between long ultra-low-power sleep mode and short high-performance mode. Based on this method, advanced systems have recently been developed by suppressing power consumption lower in sleep mode and improving energy efficiency of circuit operation in active mode. Also, circuits for energy harvesting, power conversion, and energy storage management are critical to extend the system lifetime and run load circuits more energy efficiently with the minimum margin. Topics in this Special Issue include but not limited to:

- Analog or digital circuit design techniques to enable low-power systems;
- Ultra-low-power circuit designs for standby-mode operation;
- Energy-efficient circuit designs for active-mode operation;
- Circuit designs for energy harvesting and power conversion;
- Smart management circuits or systems for energy storage devices;

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### Guest Editor

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### Deadline for manuscript submissions

closed (28 February 2021)



## Electronics

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### 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 guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

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