Special Issue

Integrated Circuits for Power Conversion: Modeling, Optimization, Design and Applications

Message from the Guest Editors

With the increase of autonomous and electric vehicles such as drone, electric scooters and bikes, the miniaturization of power electronics becomes of critical importance. The development of small and efficient converters for driving these vehicles with the minimal weight and size is creating new ways. In general, a power integrated circuit includes a power stage and the intelligence which allows controlling such machines, however there are other many types of integrated circuits for power electronics which also play important roles in the power conversion such as monitoring integrated circuits. This special issue aims to gather articles which will cover a vast range of integrated circuits for power electronics Topics include but are not limited to the following:

- battery monitoring and protection
- low power regulators and switching regulators
- drivers for wide band semiconductors(such as Gallium Nitride and Silicon Carbide)
- high-voltage and current meters
- power circuits' modeling, design methodology, optimization techniques and applications

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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.

Editor-in-Chief

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