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Applications of Power Electronics

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Message from the Guest Editors

Dear Colleagues,

Power electronics technology has found its way into many applications, from renewable energy generation to Electrical Vehicle (EV), biomedical and small appliances. In a near future, electrical energy is provided by power electronics and is consumed by power electronics. This, not only intensifies the role of power electronics technology in power conversion processes, but also implies that power systems are undergoing a paradigm shift, from centralized distribution to distributed generation.

One emerging application that has put an imprint on this paradigm shift is the microgrid. It is a small, power electronics intensive power system, which has been gaining continually-increasing interest over the past few years, both in academia and industry. The main aim of this Special Issue is to seek high-quality submissions that highlight emerging applications, address recent breakthroughs in the power electronics application-oriented design, high-power density power converters, robust and reliable power electronics technologies, smart control of power electronics at device, microgrid and system levels.

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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 guest-edited by leading experts in selected topics of interest.

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