Special Issue

Advances in Power Electronics Converters and Control

Message from the Guest Editor

In recent years, the number of applications for power electronics converters and their control has been increasing, since they play an important role in the efficient transformation of energy and in the interconnection of power systems in a wide range of uses. They are necessary in energy conversion systems, renewable energy sources, energy storage systems, distributed generation, electrical grids, transport electrification, lighting, power quality systems, medical care and rehabilitation, and the Internet of Things, among others. Advances in power electronics converters and their control contribute to the development of sustainable energy systems that comply with various regulations and standards. Additionally, there are currently significant challenges in innovating power converter topologies and switching strategies to meet the requirements of each application, as well as in obtaining high power densities and efficiencies. There are also challenges in modeling and control techniques to ensure stable operation. This Special Issue invites authors to submit original contributions on the latest developments in power electronics converters and control.

Guest Editor

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