Special Issue

Power Electronics Systems

Message from the Guest Editor

As power electronics systems become a solid solution for power conversion and energy conditioning in the transition to the intelligent, sustainable, and environmentally friendly use of energy, the challenges to be faced grow as well. In several application fields such as renewable electric power generation, energy harvesting, energy storage systems, electric vehicles, smart grids, and electromagnetic compatibility, among others, there are challenges that need to be tackled. To meet the challenges in these areas, power electronics systems have emerged as an efficient, viable, reliable, and powerful solution for the conversion and efficient conditioning of electrical energy. These applications require power converters to interface between the main generator and the load or to interconnect power sources to transfer power between them, as occurs in renewable power generation systems, energy storage systems, or smarts grids. Therefore, the design of power converters, the control design of power electronics systems, and the novel applications of power converter applications have emerged to meet these new challenges.

Guest Editor

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