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Innovative Technologies in Power Converters

Guest Editors:

Dr. Diego Gonzalez Lamar
Power Supply Group, Electrical Engineering Department, University of Oviedo, 33204 Gijón, Spain

Dr. Aitor Vázquez Ardura
Power Supply Group, Electrical Engineering Department, University of Oviedo, 33204 Gijón, Spain

Deadline for manuscript submissions:
closed (28 February 2022)

Message from the Guest Editors

The main aim of this Special Issue is to seek high-quality submissions that highlight these innovative technologies in power converters and address recent breakthroughs in power electronics application-oriented design.

The topics of interest include but are not limited to:

- Adaptive and predictive controllers
- Preventing aging and failure controllers
- Neural network-based and Artificial Intelligence controllers
- Internet of Things applied to power management
- Modular arrangements (IPOS, ISOP, IPOP, multilevel power converters, composite power converters)
- Partial power processing converters
- Multiple input–multiple output (MIMO) power converters
- Resonant-based power converters and PWM-resonant converters
- High switching frequency applications of GaN and SiC
- High power density switching converters using GaN or SiC
- Unique applications of SiC or GaN devices
- New ferromagnetic materials for magnetic elements
- Emerging dielectric materials and metamaterials for capacitors
- Superconductivity and cryogen applications

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Special Issue

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Editor-in-Chief

Prof. Dr. Flavio Canavero
Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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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Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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