



Challenges and Opportunities in Modern Power Electronics

Guest Editors:

Prof. Dr. Gianpaolo Vitale

ICAR Institute for High
Performance Computing and
Networking, National Research
Council of Italy, Via Ugo La Malfa,
153, 90146 Palermo, Italy

Dr. Giuseppe Lullo

Dipartimento di Ingegneria,
Universita' di Palermo, Viale
delle Scienze, Edif.9, 90128
Palermo, PA, Italy

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is to attract original, high-quality papers and review articles focused on modern opportunities and applications in power electronics, but showing at the same time how the new challenges can be successfully faced and solved. Topics of interest include but are not limited to:

Design: wide bandgap devices applications; EMI and high-frequency design; modular converters; hybrid (linear-switching) converters; fractional charging converters; electro-thermal design; converters with non-linear inductors

Applications: innovative lighting systems; more electric vehicles and more electric aircraft; energy saving; supercapacitor management

Optimization: power density improvement; power converter efficiency improvement; reliability improvement; multiobjective optimization of converters (regarding their efficiency, power density, and costs)

AI applications: big data for power electronics; AI techniques in power electronics

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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5
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