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Challenges and Opportunities in Modern Power Electronics

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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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Prof. Giuseppe Lullo
Guest Editors



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Special Issue



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Message from the Editor-in-Chief

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