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Optimization, Circuit Analysis and Modelling Applied to Power Electronics

Guest Editor:

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Deadline for manuscript submissions:

closed (30 April 2022)

Message from the Guest Editor

The power electronics market is moving towards high-power density and high-efficiency conversion systems. In many applications, highly reliable and resilient converters are also strongly desired. In this context, optimal design of the power conversion system plays a crucial role.

This Special Issue calls for high-quality papers on circuit analysis, modelling, stochastic optimization, and machine learning applied in, but not limited to, the following areas: wideband gap devices; high-frequency transformers; electro-thermal interactions; converter components and parasitics; numerical methods and analysis; simulations; converters design; AC–DC, DC–DC, and DC–AC converters; wideband gap-based converters; wireless power transfer; multilevel converters; power modules; smart grids; sustainable energy; automotive; more-all electric aircraft and ship.











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Message from the Editor-in-Chief

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