

Special Issue

Optimization, Circuit Analysis and Modelling Applied to Power Electronics

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.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2022)



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About the Journal

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.

Editor-in-Chief

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