

## Special Issue

# Modeling, Control, and Optimization of Power Electronic Converters

### Message from the Guest Editors

Power electronics converters are important due to their roles in renewable energy conversion systems, hybrid electric vehicles, and their continuous advancements in the electronics industry and appliances. New methods of increasing power density and efficiency, reducing cost, and including new and advanced functions are being studied. The continuous development of power converters means that devices with reduced costs, sizes, weights are being produced. To produce these types of devices, the modeling, control, and optimization of power electronic converters are essential topics. This Special Issue aims to present and disseminate recent advancements in the modeling, control, and optimization of power converters and related technologies. Topics of interest for publication include, but are not limited to: the modeling and control of power converters; new theories of power converters control; the optimization of the operation and design of power converters; the heuristic and metaheuristic optimization of power converters; new topologies and technologies of power electronics; hybrid topologies of power converters with diode-capacitor multipliers; DC-DC converters; DC-AC inverters

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### Guest Editors

Dr. Jonathan C. Mayo-Maldonado  
Prof. Dr. Julio Cesar Rosas Caro  
Dr. Jesús Elias Valdez Resendiz

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### Deadline for manuscript submissions

closed (22 November 2023)



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## About the Journal

### Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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### Editor-in-Chief

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