## Special Issue

## Key Technologies and Challenges for Power Electronics System

### Message from the Guest Editor

Power electronics is present in our daily life, from low-power applications, such as smartphones and electric vehicles, to high-power applications, such as high-voltage direct current. This Special Issue aims to present and disseminate the most recent advances related to Power Electronics systems, such as new semiconductor technologies, converter design and topologies, real-time digital modelling and simulation, advanced control, and novel applications. Topics of interest for publication include, but are not limited to:

- Wide bandgap semiconductors;
- Novel converter designs/topologies;
- Real-time digital simulation;
- Power Electronics in industrial processes;
- Power Electronics in transportation;
- Advanced controls applied to Power Electronics;
- Renewable energy sources based on Power Electronics:
- Power Electronics applied in generation, distributions and transmission systems:
- Novel Applications with Power Electronics.

### **Guest Editor**

Prof. Dr. Lucas Encarnação

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### Deadline for manuscript submissions

closed (18 July 2024)



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### 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.

### Editor-in-Chief

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