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Key Technologies and Challenges for Power Electronics System

Guest Editor:

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Deadline for manuscript submissions:
closed (18 July 2024)

Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Lucas Encarnação
Guest Editor

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Message from the Editor-in-Chief

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