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Multilevel Power Converters for Use in Mobility and Transportation Applications

Guest Editor:

Dr. Cherif Larouci
ESTACA, ESTACA-Lab, Energy and Embedded Systems for Transportation Research Department, 78066 Montigny-Le-Bretonneux, France

Deadline for manuscript submissions:
closed (20 September 2023)

Message from the Guest Editor

Dear Colleagues,

The mobility and transportation domain are currently facing several transitions, such as energy, environmental, digital, societal, etc. These transitions will be increasingly decisive in the future. The electrification of transportation systems supported by appropriate design methodologies and tools is one of the most promising solutions to meet energy and environmental constraints.

This call focuses on the potential of using multilevel power converters in transportation applications including electric vehicles, more-electric aircraft, electric aircraft, trains, electric boats, etc.

Topics of interest for publication include, but are not limited to:

- New transportation applications using multilevel power converters;
- New multilevel power converters architectures and technologies (SiC, GaN);
- The design approach of multilevel power converters;
- Optimization of multilevel power converters under multiphysics constraints;
- Control of multilevel power converters;
- On-board energy management.

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Special Issue

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Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Aerospace Engineering, University of Roma Sapienza, Via Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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