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Electric Vehicles Power Train, Storage and Charging: Design, Modelling and Simulation

Guest Editor:

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Deadline for manuscript submissions:

closed (25 May 2023)

Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to provide the current state-of-theart technology in the design of the power train, an updated status of this field, and to cover new aspects and new solutions. Topics of interests include (but are not limited to):

- Advancements in powertrain architectures;
- Power electronic converters such as inverters, onboard chargers, and DC/DC converters;
- Wired and wireless charging systems;
- Reliability and lifetime estimation of powertrain subsystems and components;
- Thermal management solutions for the drive unit, onboard power electronics, and battery modules;
- System level optimization considering performance, cost, efficiency, and reliability;
- Battery management system;
- Electrical and mechanical sensing technologies;
- Safety requirements and protection solutions;
- Recycling of powertrain components;
- Design of motors, including design for torque ripple reduction;
- Design for wide-bandgap (WBG) drives.

Dr. Alberto Reatti Guest Editor











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Message from the Editor-in-Chief

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