



Multiphysics Simulation and Optimization of Electrical Energy Systems

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Message from the Guest Editors

This Special Issue aims to develop the original studies, advanced modeling methods, and implementation techniques to efficiently execute the multiphysics and multiscale approaches in the modeling frameworks of the electrical energy systems. Topics of interest for this Special Issue include, but are not limited to:

- Electric/hybrid vehicles (road, heavy-duty and off-road)
- Renewable energy systems
- Multiphysics simulation and optimization
- Battery storage
- Supercapacitors
- Fuel cells
- Optimal control
- Battery management systems
- Power electronics converters
- Powertrain modeling
- Component sizing
- Smart grids
- Hybrid ac/dc power grids
- Sustainable power electronics applications
- Charging and traction systems for electric mobility applications
- Power quality
- Load-shift systems

