



## Modeling, Simulation and Control of Electric Drive Systems

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### Message from the Guest Editors

Dear Colleagues,

Energy optimization already represents a crucial issue in smart grid/micro-grid energy flow, renewable energy, electrical and hybrid vehicles, energy storage devices, electrical motors, and in any kind of actuators. In addition, also methods addressing the mechatronic design of energy-efficient drives and, moreover, their robust control in the presence of changing operating conditions, uncertainty, and disturbances are of great interest. In this sense, techniques based on concepts such as controllability and observability are welcome.

This Special Issue will address and collect papers successfully showing how the model-based control and optimization of electric drive systems can contribute to a sustainable use of energy in industrial and transport applications.

### Keywords:

- model-based optimization
- combinations of model-based design techniques with machine learning
- model-based system engineering in e-mobility
- design of drives based on controllability and observability concepts

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