

## Special Issue

# Adaptive Optimal Control Strategy for Plug-In Hybrid Electric Vehicles

### Message from the Guest Editor

In the current transition from conventional forms of transport towards more sustainable and net-zero emissions solutions, hybrid electric vehicles are widely considered to a suitable response to ever stricter requirements imposed by governing bodies and economic markets. In this context, conventional technologies, such as internal combustion engines, or more innovative ones, such as fuel cells, can be connected in series, parallel, or in mixed architectures with batteries to provide the required degree of freedom to manage the power needs of the drivetrain and enable proper battery management. It is evident that the choice of optimal control strategies plays a crucial role in terms of powertrain component sizing, energy savings, as well as tailpipe emissions (when conventional fuels are accounted for). Key topics of interest include, but are not limited to:

- The modeling, simulation and validation of control strategies for plug-in hybrid vehicles;
- Plug-in hybrid powertrain design with internal combustion engines or fuel cells;
- Batteries and power electronics technologies trends for plug-in HEVs;

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### Guest Editor

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### Deadline for manuscript submissions

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## Energies

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