Special Issue

Modeling and Control of Hybrid Vehicles

Message from the Guest Editors

In the global quest to move toward cleaner and more fuel-efficient energy and propulsion systems for automotive and off-road application, hybridization plays a fundamental role. In fact, most novel technologies/solutions in the field of automotive and off-road propulsion involve the integration of internal combustion engines with other power systems. While these alternative energy conversion systems offer many new opportunities, they also present new developmental challenges. Due to the many variants and possible combinations, development issues, such as the definition of powertrain concepts and the design of the optimization of operating strategies, as well as system integration and the interaction of control units, are becoming more and more important. Bearing in mind this strong interplay, this Special Issue will deal with new trends in the hybridization of conventional power units based on internal combustion engines, focusing on technologies and components design, experimental testing, modeling, and control for hybrid vehicles.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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