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Energy Management Control and Optimization for Hybrid Electric Vehicles: Volume II

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Deadline for manuscript submissions:
closed (20 August 2022)

Message from the Guest Editor

Dear Colleagues,

Hybrid electric vehicles have thrived as a lucrative solution to the aforementioned problems, with their intermediate approach to achieving superior mileage and low tailpipe emission compared to conventional internal combustion engine vehicles. To achieve these advantages, it is crucial to have a real-time energy management strategy capable of coordinating the on-board power sources in order to maximize fuel economy. This Special Issue aims to address the challenges posed by energy management control and optimization in vehicle hybridization. Papers are invited that propose novel power management methods capable of acquiring optimal power handling, accommodating system inaccuracies, and suiting real-time applications to improve the powertrain efficiency at different operating conditions. Topics may include the improvement of rule-based control strategies by optimizing the design of their rules and the suitability of optimization-based methods to real-time application as well as the proposal of novel control strategies. Experimental results describing real-life applications of novel technologies are also very welcome.

Prof. Dr. Juan P. Torreglosa
Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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