

Special Issue

Observation and Control of a Fuel Cell System for Electric Vehicle Applications

Message from the Guest Editor

Electric Vehicle (EV) based on Hydrogen Fuel Cell (HFC) propulsion are promising and are considered environmentally friendly as their byproducts are water and heat. HFC is used in combination with storage devices to power the electric motor propulsion of EV. The energy management problem of EV based HFC is a crucial problem over the last years in relation with the invading electrical and hybrid vehicle technology. We welcome original research and review articles on observation and control methodologies to the energy management problem through Fuel Cell interacting with other devices like battery, super capacitors or load. Two approaches can be investigated:

- Take Fuel Cell dynamics into account in the energy management loop;
- Do not consider the Fuel Cell dynamics in the energy management but impose some specific constraints with respect to the Fuel Cell output.

This Special Issue will focus on emerging power electronic topologies, and applications for power systems and motor drives. Topics include, but are not limited to:

- Observation in EV based on HFC propulsion;
- Control in EV based on HFC propulsion;
- Power Management in EV based on HFC propulsion.

Guest Editor

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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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