World Electric Vehicle Journal

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Energy-Efficient and Data-Driven Technologies and Controllers for Electric Vehicles

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closed (31 March 2024)

Message from the Guest Editors

Dear Colleagues,

The shift to electric-powered transport is a major step in the attainment of a greener future, with fewer greenhouse gases and cleaner air. This Special Issue is devoted to investigating recent developments in data-driven control and configuration approaches for electric engines and power electronics in transportation electrification.

The integration of data analytics, AI, and machine learning into control and design solutions enables a complete system of electric machines and power electronics to be optimized in terms of performance, reliability, and efficiency. Topics of interest include, but are not limited to, the following:

1. Data-enabled predictive controller design;
2. Data or neural-network-based tuning methods;
3. Data-driven design optimization of a traction system and its components;
4. Design and control of electric machines for special applications in electrical transportation, such as electric buses, maglev, e-bikes, railways, and electric aircraft.

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Message from the Editor-in-Chief

The *World Electric Vehicle Journal* is the official journal of the World Electric Vehicle Association (WEVA) and its members the European Association for Electromobility (AVERE), the Electric Drive Transportation Association (EDTA), and the Electric Vehicle Association of Asia Pacific (EVAAP). Since its foundation in 2007, the journal has aimed to provide a publishing platform for the academic and industrial world to share the latest developments and knowledge about electric vehicles. If you are developing Electric, Plug-in Hybrid, Hybrid Electric, or Fuel Cell Vehicles, we cordially invite you to consider us as the place for you to publish your latest results and innovations.

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