

Special Issue

Modelling, Simulation and Analysis of Electric Vehicle System in Microgrids

Message from the Guest Editor

The penetration of distributed energy resources based on converters interfaced in the microgrid is considered a future solution to deliver clean renewable energy close to the end user. One of the major advantages of the microgrid is the ability of the system to feed several loads that are located at different locations in an islanded mode to increase the reliability of the system during a power outage. Electric Vehicles (EVs) are used for transportation only a very small percentage of the day. The rest of the day, and while they are parked in EV parking stations, they are either charging or just present there. During this parking time and given the statistical studies on massive rise of EV sales and the installment of their infrastructure, they could be used to support the microgrid by supplying active and reactive power, especially in emergency conditions. Also, the rapid development of skid control safety applications in EV and modern vehicles calls for a more detailed assessment of the application-related design parameters are representing a main challenge to design suitable EV system.

Guest Editor

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About the Journal

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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