Special Issue

Electric Vehicle Smart Charging and V2G

Message from the Guest Editors

With potential benefits such as the improvement of energy efficiency, reduction in emission and oil dependence, as well as the support of the green and sustainable development of transportation systems, electric vehicles have gained unprecedented interest from governments, industries, and academia in recent years. A widespread increase in electric vehicle charging potentially brings significant challenges to the power grid. The uncoordinated charging of electric vehicles might adversely impact the power system by increasing the peak load demand and reducing reserve margins, which can cause voltage instability and reliability issues. On the other hand, with vehicle to grid (V2G) technologies, electric vehicles might benefit power grids by supporting peak load leveling and encouraging the more efficient use of electricity generated from renewable energy sources. This Special Issue is seeking contributions regarding the development and application of grid-integrated smart charging and/or V2G strategies that can optimize the benefits and reduce the risks associated with a widespread increase in electric vehicle charging.

Guest Editors

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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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