Special Issue

Electric Vehicles and Smart Grid Interaction

Message from the Guest Editor

The interaction between EVs and smart grids is a key area for achieving smart, efficient and sustainable energy systems. The interaction between evs and grids refers to a deep integration and interaction to achieve the optimal allocation and shared use of energy resources. First, it can improve the convenience and flexibility of charging electric vehicles. By building an intelligent charging infrastructure and promoting vehicle-to-grid technology, electric vehicles can be remotely monitored, intelligently dispatched and flexibly charged, improving user convenience and charging efficiency. Second, the interaction between electric vehicles and the grid helps optimize grid load management. Through the application of intelligent charging systems, the charging load of electric vehicles can be monitored and adjusted in real time to avoid excessive pressure on the power grid. At the same time, charging strategies can be optimized according to the grid demand and user demand to realize the balance and optimal scheduling of the power system load. The interaction between electric vehicles and the grid cannot be achieved without the support of related technologies and applications.

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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