Special Issue

Key Technologies for Intelligent Electric Vehicles

Message from the Guest Editors

In recent years, growing environmental awareness has motivated the automotive industry to seek sustainable solutions that enable the environmental impact of vehicles to be reduced. In this context, dynamic charging technologies for Electric Vehicles (EVs) are emerging as an innovative solution, with smart roads playing a key role in realizing this vision. Dynamic charging offers an innovative alternative, enabling EVs to recharge while on the move. Smart roads, integrated with dynamic charging systems, are the key link for this technology. These roads are equipped with sensors, communication systems, and wireless transmission technologies that enable vehicles to receive power as they move along the road. Thus, smart roads represent the essential framework for this new mobility, being a hybrid and multichannel technology offering the seamless integration of online and offline. This Special Issue invites scholars to contribute research, case studies, and reviews in order to present findings, methods, and models that are useful in defining the role of electric transportation systems in the development of sustainable mobility for both people and goods.

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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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