Special Issue

Communications, IoT, and Blockchain for Electric Vehicle Charging 2023

Message from the Guest Editors

Deeper decarbonization of the transport sector requires the construction of a wide coverage electric vehicle (EV) charging network that can meet drivers' mobility patterns and refuelling habits in a seamless manner. Recently, blockchain technologies have supported EV charging in a decentralised fashion. As a result, a large number of industrial start-ups and academic projects focusing on facilitating Vehicle-to-X (X: home, grid, and building) services, orchestrating demand flexibility, and managing EV fleet charging have come to the fore. This Special Issue aims to provide an ideal opportunity to make innovative contributions to communications, IoT, and blockchain for electric vehicle charging, including novel the network architectures, performance modelling, and joint optimization of power and communication networks for efficient planning and operation. We invite experimental, simulation-based, review and/or analytical research with well-elaborated, realistic case studies.

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Message from the Editor-in-Chief

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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