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Integration of Electric Vehicles and Renewable Energy Sources for a Sustainable Energy Transition

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Deadline for manuscript submissions:

closed (31 May 2021)

Message from the Guest Editor

Dear Colleagues,

The expected growth of electric vehicles (EV) offers great opportunities for the implementation of a novel approach in planning, managing, and controlling the power system, specifically in the presence of a relevant and diffuse renewable energy generation. In this context, the fleets of EVs and in particular the charging stations can assume an important role in the energy management of energy communities. In fact, the availability of energy and communication interconnection between vehicles and the power system allows the proper energy control of EV fleets, considering them as a cluster of agents able to act on the power system as a controllable load and generator.

This represents a great opportunity in the de-carbonization scenario that has a double impact: increase the use of renewable energy in mobility sector and support the massive diffusion of renewable energy sources (RES) on a distribution network.











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Message from the Editor-in-Chief

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