

Special Issue

Power Systems Optimization and Renewable Energies Integration

Message from the Guest Editors

The permanent challenges facing power systems operation and control open the door for unremitting developments towards its optimal operation and configuration. In this regard, the decarbonization of the electric power generation will accelerate the transition to a “smarter grid”, with a large-scale integration of renewables, hand-in-hand with better demand–response mechanisms. To tackle these challenges, a popular cause of concern is the exploitation of high-end heuristics in the search for feasible solutions in challenging domains. These are commonly used to solve classical unit commitment, optimal power flow, hybrid energy systems sizing and operation, assemble MPPTs strategies for photovoltaic systems, applied control, and energy management and distribution.

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