



Special Issue on Control and Operation of Future Power Networks

Call for Papers

Optimal operation and control of electricity power network are required to operate the future power networks both in a stable and an economic way. The upper level control (operation) is required for the economic scheduling and dispatch of the power sources. At the operation level, integration of demand response, electric vehicles, and energy storage are considered, and the optimization is carried out with several objectives, such as cost minimization, emission minimization, service reliability maximization, etc. The lower level control is responsible for maintaining stabilities and improving the power qualities of smart grids.

Advanced control techniques play an important role in achieving a reliable, robust, and economic operation of future power networks. Optimal operation and control of future power networks has been an active research area for the last decade. To achieve these goals, transforming the energy sector into a less polluting and more efficient industry is one of the most efficient tools. Indeed, today's energy industry is becoming smarter. Thus, what is known today as Smart Grid means power generation from renewable sources, mainly wind and solar, the integration of distributed generation systems and energy storage systems, the improvement of control devices and the development of active electrical networks based on flexibility and intelligent control.

In this special issue, potential topics include, but are not limited to:

- Smart grids
- Active distribution networks
- Microgrids
- Transactive energy systems
- Prosumers
- Distributed generation
- Demand response
- Energy storage
- Voltage control
- Electric vehicles

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).



Please kindly specify the “**Special Issue**” under your manuscript title. The research field “**Special Issue – Control and Operation of Future Power Networks**” should be selected during your submission.

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