



Operational Optimization of Networked Microgrids

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Deadline for manuscript
submissions:

25 February 2022

Message from the Guest Editors

Dear Colleagues,

The widespread and rapid proliferation of distributed energy resources such as wind and solar has a far-reaching impact on traditional power system paradigms and broad implications for the entire power grid. The pressing concerns when considering microgrids are the following: due to the presence of the intermittent renewables, 1) the time resolution of the associated operation optimization problems can no longer be 1 hour as in traditional grids, but rather, much shorter time periods are advised to accommodate for the fluctuations in demand; 2) the number of stochastic levels to capture low-probability high-impact events is expected to grow significantly; and 3) nonlinear AC power flow is needed to obtain feasible schedules of the microgrids.

This Special Issue is focused on 1) identifying current and potential issues and advantages of networked microgrids; and 2) developing efficient solutions methodologies to efficiently manage and coordinate networked microgrids.





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Message from the Editor-in-Chief

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Journal Rank: CiteScore - Q1 (*Control and Optimization*)

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