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Optimal Operation and Control of Microgrid Systems

Guest Editor:

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Deadline for manuscript submissions:
closed (20 July 2020)

Message from the Guest Editor

Dear Colleagues,

Optimal operation and control of microgrids are required to operate the microgrids 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 microgrids. Advanced control techniques play an important role in achieving a reliable, robust, and economic operation of microgrid systems. Optimal operation and control of microgrids has been an active research area for the last decade.

This Special Issue will deal with novel optimization and control techniques for microgrids. Topics of interest for publication include, but are not limited to:

- Optimial operation of microgrids in grid-connected and islanded modes
- Optimal operation for off-grid microgrids...

Prof. Hak-Man Kim
Guest Editor

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Message from the Editor-in-Chief

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