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Distribution System Operation and Control

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Message from the Guest Editors

With high penetration of small-scale renewable energies, as well as electric vehicles in distribution electric network, suitable operation strategies are highly required to manage these new resources. Moreover, some new potentials, such as demand response programs and market players like retailers or energy providers, should be organized in modern distribution networks. For example, one way to approach distribution system problems is by rethinking our distribution system to include the integration of high levels of distributed energy resources (DERs), using microgrid concepts. Basic objectives are improving the reliability, promoting high penetration of renewable sources, dynamic islanding, and improving generation efficiencies through the use of waste heat. For distribution systems to utilize the emerging diversity of DER technology at significant levels of penetration, the basic distribution pyridine needs to be rethought. Managing such a wide and dynamic set of resources and control points can become overwhelming. This Special Issue aims at encouraging researchers to address the solutions to overcome the issue.



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Special Issue



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Message from the Editor-in-Chief

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