Special Issue

Emerging Trends of Communications Infrastructure in Future Smart Grid

Message from the Guest Editors

The prime objective of a smart grid is to enable existing power systems to be more efficient by integrating communication, sensing, controlling, and cloud/edge computing assisted decision-making capability. Unlike the traditional power grid, a smart grid provides the opportunity to integrate distributed energy resources, including renewable energy resources. Different sensors and intelligent electronic devices connected with smart grids can collect various information and send the information through their communication interface for further processing, thereby paving the way for efficiently monitoring and controlling the smart grid. Having communication infrastructure that is reliable in a smart grid contributes not only to ensuring the safe operation of the smart grid but also to improving resource utilization and the power supply quality as well as proliferation of various smart grid applications, including distributed energy trading. Researchers are encouraged to submit original research contributions that explore the emerging trends of various communications aspects of future smart grids.

Guest Editors

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Deadline for manuscript submissions

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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