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IoT and Energy Internet

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Message from the Guest Editors

The Internet of Things (IoT) is a paradigm that converges a variety of physical, digital and virtual things through information networks, to smart environments, which cover energy, buildings, transport, cities, healthcare, etc. As an important application of IoT-enabled solutions, Energy Internet has become one of the most promising power distribution infrastructures to promote a revolutionary vision of the smart grid. The integration of energy systems, e.g. energy generation and delivery, management and consumption, with IoT architectures includes a great deal of heterogeneous devices, sensors, appliances, communication networks, information technologies, etc. introducing advanced improvements and opportunities, such as interoperability, responsiveness, robustness, advanced demanded side response, and energy efficiency enhancement. The aforementioned advantages and challenges demand extensive exploration and investigation in a cross-disciplinary field.

This Special Issue aims to foster innovative research and state-of-the-art advances in new algorithms, control strategies, communication technologies and applications in IoT-empowered smart energy systems.



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