Advances in Multi-Agent Systems for Grid Energy Management

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Message from the Guest Editors

A multiagent system is an integrated system with numerous sophisticated algorithms that communicate with one another to accomplish a set of goals or perform activities. An agent is a piece of software that takes autonomous, intelligent, or pre-set actions to help the system accomplish its goals. The addition of highly intermittent and unpredictable distributed energy supplies to the energy management system adds to the system's complexity. As a result, the traditional control employed in micro-grid EMS is no longer effective, necessitating other control systems that can manage the altered system dynamics. A decentralized artificial intelligence technology called a multiagent system, adapted from computer science, can realize this function effectively due to its inherent autonomy, scalability, flexibility, and adaptability. Considering the above requirement, this Special Issue will highlight articles presenting the latest findings in the trending research area of "multiagent systems".

Special Issue

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Message from the Editor-in-Chief

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