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Multi-Agent Deep Reinforcement Learning for Distributed Operation and Control of Microgrids

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Deadline for manuscript submissions:
closed (30 June 2023)

Message from the Guest Editors

Recently, the applications of the multi-agent system and deep reinforcement learning have attracted much attention for developing the distributed operation and control frameworks as well as handling uncertainty factors. In this Special Issue, we are looking for novel methods, algorithms, and technologies using multi-agent deep reinforcement learning to enhance energy efficiency for distributed operation and control of microgrids. Topics of interest for publication include, but are not limited to:

- Applications of artificial intelligence in distributed operation and control of microgrids
- Decentralized, and distributed operation and control of microgrids
- Energy management systems for microgrids
- Integration of renewables and EVs in microgrids
- Multiagent systems for microgrids
- Operation and control strategies with distributed energy storage systems
- Peer-to-Peer energy trading in a microgrids
- Power quality enhanced operation of distributed microgrids
- Resilience enhancement through/for microgrids

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Message from the Editor-in-Chief

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