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Machine Learning for Multi-agent Systems

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Deadline for manuscript submissions:
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Message from the Guest Editor

This Special Issue navigates both cooperative and competitive dynamics among agents. It explores machine learning techniques to facilitate collaborative behaviors while also refining competitive strategies within these systems. Researchers develop machine learning models that foster cooperative interactions among agents, promoting collaboration and information sharing. Simultaneously, there is a focus on leveraging deep learning to enhance competitive aspects, refining adversarial training methods and game-theoretic approaches.

The topics span various aspects of Multi-Agent Systems, ranging from learning algorithms and architectures to communication strategies, offering rich avenues for research and advancement. Research areas may include (but are not limited to) the following:

- Decentralized Learning Algorithms.
- Multi-Agent Reinforcement Learning.
- Adversarial Training in Multi-Agent Systems.
- Collaborative Deep Learning Architectures.
- Communication Strategies among Agents.
- Evolutionary Game Theory in Multi-Agent Systems.
- Self-Organization in Multi-Agent Systems.
- Hierarchical Multi-Agent Systems.
- Transfer Learning in Multi-Agent Environments.

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Message from the Editor-in-Chief

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