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# Information Theory in Multi-Agent Systems: Methods and Applications

Guest Editor:

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In recent years, research on the topic of the intelligent control and autonomous decision making of Multi-Agent System (MAS) has made a splash in the real-world in the form of autonomous driving, multi-robot collaboration, and MOBA games. Despite the great success of these emerging techniques in many AI tasks, they still suffer from several limitations.

Innovative approaches such unsupervised as reinforcement learning (URL) have brought about a breakthrough. In this area, the contribution of Information Theory could be highly impactful. How to deal with the mutual information objectives, state entropy, and uncertainty evaluations involved in intelligent methods are essential but difficult issues to be addressed. New machine learning technologies emergent (e.g., unsupervised reinforcement learning), information theory maximize mutual information), variational (e.g., approximation, entropy estimators, and so forth will offer us new solutions

This Special Issue welcomes the submission of new perspectives, theories, algorithms, and applications of multi-agent systems involving information theory on the central issues of efficiency, generalization, robustness, and interpretability.

**Special**sue



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### Message from the Editor-in-Chief

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