Special Issue

Advances in Intelligent Decision-Making Systems

Message from the Guest Editors

In recent years the computational games have served as fundamental testbeds for developing advanced AI capabilities. Within this domain, imperfect-information games hold particular significance - their inherent hidden information and uncertainty closely mirror real-world complexities. The challenges posed by these environments offer exceptional research value, with insights directly advancing intelligent systems in critical applications, including autonomous driving, financial risk management, and smart transportation networks.

This special issue centers on intelligent decision-making under uncertainty, addressing the crucial capabilities required for success in partially observable environments. Key challenges include: perception and interpretation of ambiguous information in dynamic contexts; accurate opponent and context modeling despite limited observability; and development of efficient, robust decision policies. Fundamental progress demands novel approaches to uncertainty quantification, opponent intention prediction, and real-time adaptation strategies - all essential for deploying reliable AI systems in stochastic real-world settings.

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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