Special Issue

Emerging Techniques in Engineering Intelligent Agents and Multi-Agent Systems

Message from the Guest Editors

Research on Intelligent Agents and MASs has blossomed recently, incorporating new artificial intelligence techniques, and leading to real-world applications in complex environments like manufacturing and healthcare. This success is driven by the field's strong interdisciplinary nature and solid engineering foundations, drawing on logic, machine learning, game theory, distributed systems, and software engineering. The increasing need for distributed and dynamic computing systems, where independent entities interact, further fuels interest in MASs. The future of MASs is bright, with potential for significant advancements coming from integrations with large language models (LLMs), simulation tools, and machine and reinforcement learning. These integrations could push the boundaries of agent capabilities and open doors to even more powerful applications. In this Special Issue, we welcome contributions focussing on (present or future) practical applications of MASs, possibly involving the aforementioned integrations.

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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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