Special Issue

Advances in Intelligent Systems, Technologies and Applications

Message from the Guest Editors

From practical and theoretical perspectives, an essential current research direction that is under examination by a very large number of scientists worldwide is the development of artificial systems, also called agent-based systems, which can be either individual agents or cooperative multiagent systems. These systems are embedded in the environment, possess a certain degree of autonomy, and are capable of perceiving the environment and executing actions in it. Intelligence in agent-based systems can emerge through advanced problem-solving abilities.

This Special Issue aims to establish a solid foundation for future research through a collection of papers that advance the field by elaborating on theories, designing applications, and presenting surveys regarding the next generation of increasingly intelligent systems. The areas of research covered in these papers could include the study of self-organization, emergence, hybridization, scalability, robustness, measuring machine intelligence, and the integration of advanced paradigms such as supervised learning, unsupervised learning, retrieval-augmented generation, and cache-augmented generation.

Guest Editors

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Deadline for manuscript submissions

20 March 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/233314

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mdpi.com/journal/applsci

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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.

Editor-in-Chief

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