Special Issue

Advances in Artificial Intelligence and Data Sciences

Message from the Guest Editor

Artificial Intelligence (AI) and Data Science are advancing rapidly, driving innovation in automation and scientific discovery. Deep learning is transforming natural language processing, computer vision, and generative AI, enabling machines to create realistic text, images, and music.

Technologies such as Edge AI and federated learning improve efficiency and privacy by supporting decentralized, secure data processing. AI also augments creativity in software development and digital art through generative tools and digital twins.

Looking ahead, research is advancing toward Artificial General Intelligence (AGI), with hybrid approaches like neurosymbolic AI combining deep learning with logical reasoning. Quantum AI and neuromorphic computing promise breakthroughs in areas like drug discovery and energy-efficient systems.

AI is transforming healthcare through improved diagnostics, personalized treatments, and wearable monitoring. As adoption grows, ethical development—emphasizing transparency, fairness, and accountability—is essential. The future of AI lies in responsible, human-centered innovation that complements human expertise and addresses global challenges.

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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