Applied Mathematics in Artificial Intelligence: Methods, Algorithms, and Applications

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Message from the Guest Editors

Dear Colleagues,

Applied mathematics in artificial intelligence (AI) leverages mathematical methods to develop and understand AI algorithms and their applications, equipping intelligent systems with real-world problem-solving capabilities. Recognizing the transformative potential of this field, we aim to aggregate cutting-edge research in applied mathematics in AI to drive the socio-economic advancement of our emerging intelligent society.

This Special Issue invites high-quality papers that provide comprehensive reviews, innovative implementations, and groundbreaking applications of applied mathematics in AI. We welcome submissions in the following areas:

- Mathematical foundations
- Machine learning algorithms
- Deep learning
- Algorithmic techniques
- Computational methods
- Applications

We encourage researchers, practitioners, and academics to contribute their original research and insights to this Special Issue. Join us in advancing the frontiers of applied mathematics in artificial intelligence, fostering innovations that will shape the future of intelligent systems and their impact on society.

Special Issue

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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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