



## Mathematical Methods in Machine Learning, Neural Networks and Computer Vision

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### Message from the Guest Editor

Dear Colleagues,

This Special Issue, entitled "Mathematical Methods in Machine Learning, Neural Networks and Computer Vision", aims to explore the intersection of advanced mathematical techniques with cutting-edge applications in artificial intelligence. It encompasses research into mathematical tools, novel algorithms, optimization strategies, and theoretical frameworks that underpin the development and enhancement of machine learning models, neural networks, and computer vision systems. Contributions to this Special Issue include studies on statistical learning theories, deep learning architectures, computational geometry, graph-based methods, and their applications in time series analysis, image recognition, video processing, natural language processing, and autonomous systems. This Special Issue seeks to foster a deeper understanding of the mathematical foundations crucial to advancing the capabilities and efficiency of AI technologies.





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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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