

Special Issue

Mathematics Applications of Artificial Intelligence and Computer Vision

Message from the Guest Editor

This Special Issue, "Mathematics Applications of Artificial Intelligence and Computer Vision", invites researchers to delve into the critical role mathematics plays in shaping AI and CV methodologies. By emphasizing mathematical rigor, this Special Issue aims to explore innovative approaches in feature extraction, geometric modeling for image analysis, optimization techniques, and the development of interpretable and robust deep learning algorithms. The focus extends to the application of mathematical methods in addressing real-world challenges, improving system efficiency, and enhancing understanding. Topics of interest include, but are not limited to, theoretical advancements in image analysis, mathematical formulations for pattern recognition, novel deep learning schemes, and breakthroughs in computational intelligence, with applications in vision-related tasks. This Special Issue seeks to bridge mathematical theory with its transformative applications in computer vision and artificial intelligence by encouraging a multidisciplinary perspective and fostering innovation in both academic research and industry practice.

Guest Editor

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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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