

Special Issue

Mathematical Foundations and Approaches to AI Governance in Computer Vision

Message from the Guest Editors

AI Governance in Computer Vision has emerged as a critical and rapidly evolving area of interdisciplinary research. This field sits at the intersection of artificial intelligence, visual computing, and mathematical sciences, requiring a deep integration of mathematical principles such as optimization, statistics, variational methods, algebraic structures, differential geometry, and information theory. These mathematical foundations not only support the design of robust and interpretable vision algorithms but are also vital for embedding ethical, transparent, and accountable governance mechanisms into computer vision systems. This Special Issue aims to provide a focused platform for researchers to present original and high-quality contributions on the mathematical foundations and methods that enable trustworthy, governable computer vision systems. We particularly encourage submissions that bridge theoretical innovation with real-world applications and promote interdisciplinary collaboration across mathematics, computer science, and the broader AI ethics and governance communities.

Guest Editors

Prof. Dr. Jian Zhao

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Deadline for manuscript submissions

closed (30 April 2026)



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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.

Editor-in-Chief

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