

Special Issue

Symmetry in Computer Vision and Machine Learning

Message from the Guest Editors

Symmetry, a fundamental concept in mathematics and physics, is becoming increasingly vital in computer vision and machine learning, offering principled approaches to enhance model design, generalization, and interpretability. This Special Issue invites submissions that explore the role of symmetry, encompassing geometric and algebraic principles, in advancing these fields. We welcome research that investigates how symmetry can improve data efficiency, robustness, and reasoning in AI systems through innovative architectures and algorithms. Contributions may span theoretical insights and practical applications, fostering interdisciplinary connections between mathematics, computer vision, and machine learning to address challenges in areas such as image analysis and pattern recognition. We look forward to receiving your submissions!

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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