

Special Issue

Symmetry in Computer Vision: Theory, Algorithms, and Applications

Message from the Guest Editors

The role of computer vision becomes crucial when addressing large-scale variations across diverse categories of images processed by algorithms to solve domain-specific, real-life applications. This Special Issue aims to cover a wide range of image processing applications, emphasizing the role of symmetry in visual data. The analysis of symmetry in visual information plays an important role in enhancing system sustainability and ensuring data security, particularly when matching information across different phases of real-world processes. Notably, satellite aperture ranging, healthcare analytics, and agriculture and food processing systems represent key domains where computer vision-based symmetry algorithms can make significant contributions. Data collected from these domains are vital for advancing sustainability in agriculture and improving land-use classification through visual data analysis. At the same time, designing symmetrical computer vision systems requires addressing challenges related to security threats. The research articles featured in the Issue are expected to advance the fields of emerging machine learning, data science, and natural language processing techniques.

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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.

Editor-in-Chief

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