

Special Issue

Symmetry and Asymmetry in Application of the Computer Vision: Remote Sensing and Target Detection

Message from the Guest Editor

In the rapidly evolving field of computer vision, the interplay between symmetry and asymmetry plays a fundamental role in understanding and interpreting complex visual data, particularly in remote sensing and target detection. Symmetry, as a key geometric property, facilitates robust feature extraction, pattern recognition, and 3D reconstruction from remote sensing imagery, enabling efficient analysis of urban landscapes, natural formations, and human-made structures. Conversely, the detection of asymmetries is crucial for identifying anomalies, changes, and specific targets that often deviate from expected symmetric patterns. This Issue welcomes contributions presenting novel algorithms, deep learning architectures, and mathematical models that exploit these complementary concepts. Topics of interest include, but are not limited to, symmetric-aware deep learning for object detection, asymmetry-driven change detection, multi-modal remote sensing data fusion, and the theoretical foundations of symmetry in vision transformers.

Guest Editor

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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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