

Special Issue

Trends and Prospects in Image Processing with Symmetry/Asymmetry

Message from the Guest Editors

Symmetry detection plays a crucial role in various computer vision tasks, such as object recognition, scene understanding, and image retrieval. Traditional approaches to symmetry detection have primarily relied on manually designing specific features or utilizing handcrafted algorithms. However, recent advancements in deep learning have revolutionized this field. Convolutional neural networks (CNNs) have been effectively employed to automatically learn discriminative representations for symmetry detection. These networks can capture complex patterns and hierarchies in images, enabling the improved performance of symmetry detection algorithms.

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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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