Special Issue

Symmetry and Asymmetry Study in Object Detection

Message from the Guest Editors

This Special Issue focuses on the critical role of symmetry and asymmetry in object detection, exploring how these geometric properties can enhance detection algorithms. Symmetry can simplify the identification and localization of objects by reducing computational complexity and improving accuracy. Conversely, understanding asymmetry is essential for detecting irregular or occluded objects. Contributions are invited with novel methodologies, theoretical analyses, and practical applications that leverage symmetry and asymmetry in object detection. Studies may include advancements in machine learning, computer vision, and real-world applications across various domains such as robotics, autonomous systems, and medical imaging.

Guest Editors

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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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