



Symmetry Applied in Computer Vision, Automation, and Robotics

Guest Editors:

Dr. Dawei Li

College of Information Sciences
and Technology, Donghua
University, Shanghai 201620,
China

Dr. Xuesong Tang

College of Information Sciences
and Technology, Donghua
University, Shanghai 201620,
China

Dr. Xin Cai

College of Information Sciences
and Technology, Donghua
University, Shanghai 201620,
China

Deadline for manuscript
submissions:

31 May 2025

Message from the Guest Editors

Dear Colleagues,

Symmetry plays a crucial role in various aspects of computer vision, automation and robotics. This Special Issue, entitled “Symmetry in Applied Computer Vision, Automation, and Robotics”, mainly covers the topics of the theory, phenomenon, and research regarding symmetry in applied computer vision, automation, and robotics. This Special Issue will also attempt to cover the whole field of symmetry (and asymmetry) in its widest sense. We cordially and earnestly invite researchers to contribute their original and high-quality research papers that will inspire advances in computer vision, image processing, 3D sensing, automation, control system and control engineering, robotics, robotic control, optimization, and their symmetry-related applications.

Dr. Dawei Li

Dr. Xuesong Tang

Dr. Xin Cai

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei Odintsov

1. Institució Catalana de Recerca
i Estudis Avançats (ICREA),
Passeig Luis Companys, 23,
08010 Barcelona, Spain
2. Institute of Space Sciences
(ICE-CSIC), C. Can Magrans s/n,
08193 Barcelona, Spain

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (General Mathematics)

Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
X@Symmetry_MDPI