

## Special Issue

# Symmetry and Its Applications in Image Processing

### Message from the Guest Editors

The Special Issue, entitled “Symmetry and Its Applications in Image Processing”, delves into the fascinating relationship between symmetry phenomena and image processing, exploring how symmetry concepts enrich and enhance image processing techniques. Symmetry, as a fundamental principle in various disciplines, plays a pivotal role in the understanding and manipulation of visual data. This Special Issue aims to provide a comprehensive exploration of the multifaceted ways in which symmetry influences image processing methodologies, from fundamental principles to innovative applications. The articles in this Special Issue will cover a wide range of topics, including symmetry-based image enhancement techniques, symmetrical algorithms for pattern recognition, computational methods for symmetry detection, and the utilization of symmetric patterns in feature extraction. By shedding light on these diverse aspects of symmetry in image processing, this Special Issue seeks to contribute to the advancement of research in this dynamic field and inspire new avenues of inquiry and innovation.

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### Guest Editors

Dr. José Luis Vázquez-Noguera

Dr. Horacio Legal-Ayala

Dr. Julio César Mello-Román

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### Deadline for manuscript submissions

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## Symmetry

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*Symmetry*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[symmetry@mdpi.com](mailto:symmetry@mdpi.com)

[mdpi.com/journal/  
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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.

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### Editor-in-Chief

Prof. Dr. Sergei Odintsov  
ICREA, 08010 Barcelona and Institute of Space Sciences (IEEC-CSIC),  
C. Can Magrans s/n, 08193 Barcelona, Spain

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