

## Special Issue

# Symmetry and Its Application in Remote Sensing

### Message from the Guest Editor

This Special Issue of *Symmetry* explores the multifaceted relationship between symmetry principles and remote sensing technologies. It delves into the application of symmetry concepts in the analysis, interpretation, and enhancement of remote sensing data. Contributors should examine how symmetry-based algorithms and methodologies can enhance the extraction of meaningful information from various types of remote sensing imagery, such as satellite images, LiDAR data, and aerial photographs. This Special Issue highlights the role of symmetry in improving image classification, feature detection, change detection, and pattern recognition in remote sensing applications. Moreover, it addresses novel approaches and advancements in utilizing symmetry principles to address challenges in remote sensing, including image noise, atmospheric effects, and data fusion. This Special Issue serves as a comprehensive platform for researchers, practitioners, and professionals to exchange ideas, share insights, and advance the integration of symmetry principles in remote sensing practices.

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### Guest Editor

Prof. Dr. Rifaat Abdalla

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### Deadline for manuscript submissions

closed (30 June 2025)



## Symmetry

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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

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