

Special Issue

Symmetry/Asymmetry in Remote Sensing and Applications

Message from the Guest Editor

Symmetry and asymmetry are mathematical concepts largely used in image processing. These concepts play a pivotal role in (i) enhancing collected data, (ii) improving object extraction, (iii) improving image classification, (iv) identifying patterns in data, and (v) detecting anomalies in data. Remote sensing technologies provide a wide range of images—such as satellite images, aerial photographs, UAV images, and aeromagnetic images, among others—that are largely used in different scientific fields (cartography, hydrology, geophysics, ecology, geography, environmentology, etc.). In fact, remote sensing images are mainly used to automatically map natural hazards (landslides, floods, erosion, earthquakes, etc.), natural resources (forests, surface water, ices, mineralization, etc.), surface forms (geological structures and formations, dunes, trees, ships, etc.), and anthropogenic impacts (water pollution, deforestation, land use/land cover change, land and soil loss, biodiversity loss, etc.). This Special Issue, entitled “Symmetry/Asymmetry in Remote Sensing and Applications”, aims to explore these mathematical concepts by enhancing and enriching remote sensing image processing.

Guest Editor

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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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