

Special Issue

Symmetry Applied in Remote Sensing Technology

Message from the Guest Editors

Remote sensing technologies are rapidly advancing to support emerging applications and precise target localization. Monitoring ships, sea traffic, and airspace remains a priority for security. Sea-surface monitoring relies on microwave radars, limited to territorial waters due to line-of-sight propagation. To cover the full EEZ and beyond, high-frequency OTHR systems are used. Air monitoring employs VHF radars, while SAR and ionospheric radars are also of interest. *Symmetry* is essential in radar subsystems—waveforms, codes, antenna arrays, and signal processing—enhancing simplicity, ambiguity, sidelobe suppression, reciprocity, and robustness. Research topics also include symmetric beam control, calibration, asymmetries, Doppler, coupling, and interference suppression. Mechanical design, real-time processing, and AI provide further directions. This Special Issue welcomes novel ideas, advanced methods, comparative studies, surveys, and reviews related to symmetry in remote sensing, including OTHR, HFSWR, VHF radars, early warning systems, SAR, ionospheric radars, and microwave radars.

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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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