

Special Issue

Symmetry and Asymmetry in Radar Detection and Imaging

Message from the Guest Editors

Symmetry and asymmetry permeate the entire process of radar detection and imaging. This includes, but is not limited to, symmetries in target characteristics—such as target motion, attitude changes, geometric structures, and physical scattering properties; symmetries related to sensors—such as sensor configurations, observation distributions, and measurement parameters; symmetries in the processing—including mappings from target characteristics to measurements, distributions of measurement results, noise, and electronic countermeasures; and processing symmetries associated with information extraction, including signal processing, data processing, and information mining. Fully utilizing and exploiting these symmetry features to enhance the performance or efficiency of radar detection and imaging and to specifically design and improve relevant algorithms and methodologies is the primary focus of this Special Issue. We invite researchers, practitioners, and professionals to exchange ideas, share insights, and advance the integration of symmetry principles in radar detection and imaging through this Special Issue.

Guest Editors

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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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