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Symmetry in Antenna Theory and Design

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Message from the Guest Editors

Dear Colleagues,

We are pleased to invite you to participate in the Special Issue of the MDPI *Symmetry* journal with the title **Symmetry in Antenna Theory and Design**.

Symmetry plays a crucial role in natural sciences, and, consequently, increasing interest in utilizing symmetry has appeared in the area of antenna theory and design. In the case of modal approaches of antenna theory, consideration of symmetry can enable the design of uncorrelated channels and orthogonal radiation states for antennas, tracking of modes by sweeping of design parameters, and investigation of fundamental electromagnetic bounds. The introduction of higher symmetry, e.g., glide or twist symmetry, into periodic structures described by a unit cell is expected to yield improvement in their properties, such as increase of bandwidth, reduction of losses, or resistance to defects.

Therefore, seeing the potential in utilization of symmetry in antennas and, generally, in electromagnetics, we would like to present the current advances in this topical field through this Special Issue. Original research articles and reviews are welcome...

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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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