Special Issue

Symmetry/ Asymmetry in Interdisciplinary Fusion Optimization of Infrared, Millimeter, and Terahertz Waves for Biomedical Applications: Novel Approaches, Advanced Technologies and Further Applications

Message from the Guest Editors

In this Special Issue of *Symmetry*, we will focus on novel approaches, advanced technologies, and further applications for and consequences of the prevalent use of symmetry in many theoretical and experimental topics on the interdisciplinary fusion optimization of infrared, millimeter, and terahertz waves for biomedical applications, such as manipulating ion transport across membrane using infrared/millimeter/terahertz waves, monitoring biomarkers in metabolic processes using new methods, detecting pathological tissue from normal tissues, constructing high resolution/high contrast images of cells or tissues, and developing novel infrared/millimeter/terahertz wave circuits and systems for biomedical applications, and programming new algorithms for biomedical sensing and imaging. Studies of novel infrared/millimeter/terahertz wave devices targeting on biomedical applications, including novel infrared/millimeter/terahertz wave high sensitivity/wearable biosensors, where symmetry, or the deliberate lack of symmetry, is present are also welcome.

Guest Editors

Prof. Dr. Shaomeng Wang

School of Electronic Science and Engineering, University of Electronic Science and Technology of China, Chengdu 610054, China

Dr. Wensong Wang

School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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