Special Issue

Advances in Symmetric Tensor Decomposition Methods

Message from the Guest Editor

Multi-way arrays (tensors) that demonstrate symmetry in all or selected modes can be found in a wide range of engineering and industrial applications, especially in signal processing, mobile communication, data mining, biomedical engineering, psychometrics, and chemometrics. Various tensor decomposition models and optimization algorithms have been developed to process such tensors, pursing a variety of goals such as dimensionality reduction, and feature extraction. The aim of this Special Issue of *Symmetry* is to present the latest advances and possible future directions in the subarea of tensor decompositions that are related to various symmetry aspects. Such a relationship could be interpreted in a wide sense, for example, as the symmetry imposed onto models, in particular symmetric, near-symmetric, skew-symmetric, and semi-symmetric tensor decompositions; symmetric structures and architectures of tensor networks; or numerical algorithms that are addressed for updating these factors in such models...

Guest Editor

Prof. Dr. Rafał Zdunek

Wroclaw University of Technology, Wybrzeze Wyspianskiego 27, 50-370 Wroclaw, Poland

Deadline for manuscript submissions

closed (30 November 2023)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/38086

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

mdpi.com/journal/symmetry

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/journal/symmetry

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

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

MDPI