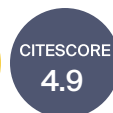




symmetry

an Open Access Journal by MDPI



Advances in Symmetric Tensor Decomposition Methods

Guest Editor:

Prof. Dr. Rafał Zdunek

Wrocław University of
Technology, Wybrzeże
Wypianskiego 27, 50-370
Wrocław, Poland

Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editor

Dear Colleagues,

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, pursuing 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...



mdpi.com/si/38086

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov

1. Institució Catalana de Recerca
i Estudis Avançats (ICREA),
Passeig Luis Companys, 23,
08010 Barcelona, Spain
2. Institute of Space Sciences
(ICE-CSIC), C. Can Magrans s/n,
08193 Barcelona, Spain

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.

Author Benefits

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

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

Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (*General Mathematics*); Q1 (*Physics and Astronomy*); Q1 (*Computer Science*)

Contact Us

Symmetry Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
X@Symmetry_MDPI