

Special Issue

Tensor Decompositions and Tensor Networks: New Methods and Applications

Message from the Guest Editors

Tensor decompositions and tensor networks are effective methods for processing multidimensional data. They are particularly useful for compressing and reducing data tensors while preserving their natural multidimensional structure. Tensor decompositions and tensor networks have been effectively used in numerous applications including signal processing, machine learning, blind source separation, chemometrics, feature extraction/selection and deep learning. In this Special Issue of *Mathematics*, we are looking for high-quality research or review papers on these topics. The primary focus is on, but not limited to, recent advances in tensor computations and fast algorithms for the computation of different types of tensor decompositions or their constrained forms. We are also interested in novel applications of tensor methods in data science and machine learning, but we welcome any other tensor decomposition-related, mathematically fascinating developments.

Guest Editors

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Deadline for manuscript submissions

closed (7 February 2024)



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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).