

# Special Issue

## Spectral Theory of Tensors, Tensor (Rank) Decompositions, and Their Applications

### Message from the Guest Editors

The study of higher-order tensors (multi-dimensional arrays) has been an active research area for over a decade. Numerous significant progresses have been made in the front on eigenvalue problems for tensors, tensor rank problems, tensor decompositions problems, and spectral hypergraph theory, just to name a few, while new discoveries are being made as we speak. Alongside theoretical development, a wide range of applications found their way in Numerical Multilinear Algebra, Image Processing, Statistical Data Analysis, Multi-relational data mining, best rank-one approximation, Convex Optimizations, Higher-order Markov chains, and Quantum entanglement problems, etc.

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### Guest Editors

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### Deadline for manuscript submissions

closed (31 March 2026)



## Mathematics

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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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### Editor-in-Chief

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