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

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Message from the Guest Editors

The study of higher-order tensors (multi-dimensional arravs) 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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Message from the Editor-in-Chief

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