



Special Issue on Eigenvalues and Eigenvectors

Call for Papers

Eigenvalues are a special set of scalars associated with a linear system of equations that are sometimes also known as characteristic roots, characteristic values, proper values, or latent roots. The determination of the eigenvalues and eigenvectors of a system is extremely important in physics and engineering, where it is equivalent to matrix diagonalization and arises in such common applications as stability analysis, the physics of rotating bodies, and small oscillations of vibrating systems, to name only a few. Each eigenvalue is paired with a corresponding so-called eigenvector. As one of fundamental theories in the pure mathematics, the theory about **eigenvalues and eigenvectors** is of great attractions to researchers.

In this special issue, we intend to invite front-line researchers and authors to submit original researches and review articles on exploring **eigenvalues and eigenvectors**. Potential topics include, but are not limited to:

- Eigenvalues of geometric transformations
- Schrödinger equation
- Molecular orbitals
- Principal components analysis
- Vibration analysis
- Differential eigenvalue problems
- Matrix eigenvalue problems
- Numerical eigenvalue problems

Authors should read over the journal's [Authors' Guidelines](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue - Eigenvalues and Eigenvectors**” should be chosen during your submission.

According to the following timetable:

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