

Special Issue

Matrices and Symmetry

Message from the Guest Editor

Matrix analysis plays a fundamental role in many areas of mathematics. It is also used in physics, statistics, multi-criteria analysis, and many other areas. Therefore, any research into matrix analysis (spectral theory, pseudoinverses, etc.) will surely be important for the development of the science in general, and not only finite dimensional analysis, since operator theory is also used in applications.

Symmetry arises in physics from many situations, probably the most important is in regard to the conservation laws (energy, momentum, electric charge, etc.). Symmetry also surges in several (very different) disciplines: quantum mechanics, analytic hierarchy processes, tensor analysis, relativity, harmonic oscillators, computer aided geometric design, and many other situations. Inherent symmetry can be used to produce more theoretical results (in order to develop a better understanding) or can be applied to reduce the computation.

We invite researchers to present results that show the strong connection between matrices and symmetry. Both theoretical and more applied studies are welcome.

Guest Editor

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About the Journal

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.

Editor-in-Chief

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