



Infinite Matrices and Their Applications

Guest Editors:

Prof. Dr. Pappur Nagappa Shivakumar

Mathematics Department,
University of Manitoba, Winnipeg,
MB R2M 0T8, Canada

Dr. Zhuo-Heng He

Department of Mathematics,
Shanghai University, Shanghai
200444, China

Prof. Dr. Yang Zhang

Department of Mathematics,
University of Manitoba, Winnipeg,
MB R2M 0T8, Canada

Deadline for manuscript
submissions:

24 November 2024

Message from the Guest Editors

Dear Colleagues,

Infinite matrices play important roles in mathematics and other sciences. In this Special Issue, we are mainly concerned with the theory of finite and infinite matrices/tensors over the real numbers, complex numbers, and over generalized quaternions. This Special Issue will include, but is not limited to:

- The fast computing algorithms for eigenvalues of matrices/tensors.
- Various decompositions of matrices/tensors.
- Solving matrix/tensor equations
- Computing generalized inverses.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank: JCR - Q1 (*Mathematics*) / CiteScore - Q1 (*General Mathematics*)

Contact Us

Mathematics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
X@MathematicsMDPI