Special Issue

Multivariate Data Analysis: Theory, Applications and Interpretation Issues

Message from the Guest Editors

Data mining covers all forms of qualitative, quantitative, textual, image, and sound data today. The ease of expressing the results of an algorithm in human language is an essential condition for its use. With this Special Issue, in addition to targeting new, innovative methods and relevant applications of data analysis, contributions covering solutions for interpretation problems or theoretical constructions that may lead to general formulations of interpretation problems in the context of multivariate data analysis are sought, namely:

- Generalization of biplots for three or more modes to d
 3 dimensions;
- Cluster interpretations;
- Interpretability of algorithms;
- Results meaning and interpretation theory;
- Software: R or Python packages for new algorithms;
- Trees comparison;
- Statistical Modeling.

Guest Editors

Dr. Valter Martins Vairinhos
Escola Naval, CINAV, 2810-001 Almada, Portugal

Dr. Luis M. Grilo

- 1. Department of Mathematics, University of Évora, 7000-849 Évora, Portugal
- CIMA (Center for Research on Mathematics and its Applications), University of Évora, Colégio Luís António Verney, Rua Romão Ramalho, 59, 7000-671 Évora, Portugal
- 3. NOVA Math (Center of Mathematics and Its Applications), NOVA FCT, NOVA University of Lisbon, 2829-516 Caparica, Portugal 4. Ci2 (Smart Cities Research Center), Polytechnic Institute of Tomar (IPT), Quinta do Contador, Estrada da Serra, 2300-313 Tomar, Portugal

Dr. Stelios D. Georgiou

School of Science, Department of Mathematical Sciences, RMIT University, Melbourne, VIC 3000, Australia

Deadline for manuscript submissions

closed (20 April 2025)



Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



mdpi.com/si/167338

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

mdpi.com/journal/mathematics





Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6



About the Journal

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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

