



an Open Access Journal by MDPI

Computational Approaches for Data Inspection in Biomedicine

Guest Editors:

Message from the Guest Editors

Prof. Dr. Nicoletta Del Buono Department of Mathematics, University of Bari Aldo Moro via E. Orabona, 4, I -70125 Bari, Italy

Dr. Flavia Esposito

Department of Mathematics, University of Bari Aldo Moro, 70125 Bari, Italy

Deadline for manuscript submissions: closed (31 October 2022)

Dear Colleagues,

In recent decades, the rapid development of highperformance technologies has produced an explosive growth of digitized medical data, including radiology images, omics data, laboratory test results, and medical and personal statistics. The main aim of this Special Issue is to introduce and discuss major problems for the preprocessing, analysis, and interpretation of biomedical data, to review the state-of-the-art of mathematical and computational approaches for biomedical applications, and to explore current and emerging algorithms and techniques able to unravel patterns, associations and correlations in large amounts of biomedical datasets.

Keywords Topics of interest include but are not limited to: Low-rank methods for biomedical data; Feature extraction and selection algorithms in biomedical data; Anomaly detection methods for biomedical applications; Clustering algorithms applied to omics and biomedical data; Bioimaging for omics data; Optimization and machine learning algorithms for biomedical data.



Specialsue





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 iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/mathematics mathematics@mdpi.com X@MathematicsMDPI