



## Statistical Data Modeling and Machine Learning with Applications II

Guest Editors:

**Prof. Dr. Snezhana Gocheva-Ilieva**

Department of Mathematical Analysis, Faculty of Mathematics and Informatics, University of Plovdiv Paisii Hilendarski, 24 Tzar Assen St., 4000 Plovdiv, Bulgaria

**Dr. Atanas Ivanov**

Department of Mathematical Analysis, Faculty of Mathematics and Informatics, Paisii Hilendarski University of Plovdiv, 4000 Plovdiv, Bulgaria

**Dr. Hristina Kulina**

Department of Mathematical Analysis, University of Plovdiv Paisii Hilendarski, 24 Tzar Asen St., 4000 Plovdiv, Bulgaria

Deadline for manuscript submissions:

**closed (10 April 2023)**

### Message from the Guest Editors

Statistics and machine learning are two intertwined fields of mathematics and computer science. In recent years, very powerful classification and predictive methods have been developed in this area. The proposed Special Issue aims to publish review papers, research articles, and communications that present new original methods, applications, data analyses, case studies, comparative studies, and other results. Special attention will be given, but is not limited, to the theory and application of statistical data modeling and machine learning to diverse areas such as computer science, economics, industry, medicine, environmental sciences, forex and finance, education, engineering, marketing, agriculture, and more.

Keywords: computational statistics; dimensionality reduction and variable selection; nonparametric statistical modeling; supervised learning (classification, regression); clustering methods; financial statistics and econometrics; statistical algorithms; time series analysis and forecasting; machine learning algorithms; decision trees; ensemble methods; neural networks; deep learning; hybrid models; data analysis





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