





an Open Access Journal by MDPI

# Advances of Machine Learning and Data Mining Using Mathematical Optimization in Honor of the 65th Birthday of Prof. Adil M. Bagirov

Guest Editors:

#### Dr. Sona Taheri

School of Science, RMIT University, Melbourne, VIC 3001, Australia

## Dr. Nargiz Sultanova

School of Engineering, Information Technology and Physical Sciences, Federation University Australia, Ballarat, Victoria 3350. Australia

Deadline for manuscript submissions:

closed (29 February 2024)

# **Message from the Guest Editors**

The recent results show that optimization models and methods are vital in designing efficient and accurate ML techniques, since using optimization in Machine learning(ML), particularly non-smooth optimization (NSO), leads to a significant reduction in the number of their variables, and thus allows us to extract essential knowledge from a huge volume of data efficiently and accurately.

The purpose of this Special Issue is to gather a collection of articles reflecting upon the latest developments of optimization-based machine learning and data mining techniques and their applications. The fields of interest include operations research and numerical optimization, such as issues of machine learning, data mining, big data, and others

The Guest Editors are grateful to Professor Adil Bagirov, with whom they have had the privilege of conducting research in the area of data mining, machine learning and optimization. We wish him a very happy 65th birthday!











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**