



Mathematical Modelling and Multi-Criteria Optimisation in Engineering

Guest Editors:

Prof. Dr. Sambor Guze

Gdynia Maritime University,
Morska, 81-225 Gdynia, Poland
s.guze@wn.am.gdynia.pl

Prof. Dr. Enrico Zio

CentraleSupélec, Laboratoire
Genie Industriel, Chair Syst Sci &
Energetic Challenge, Fondation
EDF, F-91190 Gif Sur Yvette,
France and Politecnico di Milano,
Energy Department, 20156
Milano, Italy
enrico.zio@polimi.it

Deadline for manuscript
submissions:

31 December 2021

Message from the Guest Editors

Scientists, engineers, and economists try to understand, develop, and optimise physical objects, systems, and processes. To make this possible, they must model them as complex systems composed of multiple and diverse elements. The aim of the Special Issue is bringing together the latest research achievements of scholars studying and developing mathematical models and multi-criteria optimisation methods and tools in science, engineering, and economics.

Primarily, this issue focuses on the latest and innovative solutions in the fields of:

- Safety and reliability modelling and optimisation of systems and processes;
- Transportation, computer and social network modelling and optimisation;
- Transportation systems modelling and optimisation;
- Applications of computational mathematics, including methods of artificial intelligence in science, engineering and economics;
- Business processes modelling and optimisation;
- Financial processes and systems modelling and optimisation;
- Mathematical modelling and optimisation of economic processes;
- Models, methods and algorithms of multi-criteria optimisation for scientific, engineering and economics applications.





an Open Access Journal by MDPI

Editor-in-Chief

**Prof. Dr. José A. Tenreiro
Machado**

Department of Electrical
Engineering, Institute of
Engineering, Polytechnic
Institute of Porto, 4249-015 Porto,
Portugal

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), and many other databases.

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

Contact Us

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

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

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