Special Issue

Mathematical and Computational Modelling in Empirical and Applied Science

Message from the Guest Editors

Life sciences have become central in scientific research over recent years, both for their wide range of advanced applications and for their usefulness in the treatment of complex and/or rare diseases that affect humans. Experimentalists in biology and, more generally, in the natural and applied sciences increasingly look to the simulation methods and tools that mathematicians, statisticians, and computer scientists can offer, in attempts to obtain in-depth information on the physical phenomena in which they are involved. To accomplish this task, modeling is confirmed as an essential step with which to gain insights and acquire knowledge on the phenomena considered, describe the related processes of interest, and make predictions. Contributions are therefore welcome regarding applications of mathematics to real-life situations and, above all, to natural and applied science, particularly computational biology and biotechnology, but also physics and medicine. Also of interest are applications involving complex and/or high-dimensional data or dynamics arising in the social sciences, especially economics devoted to health and lifestyle aspects.

Guest Editors

Prof. Giulia Spaletta

Prof. Dr. Margherita Carletti

Prof. Dr. Alberto Lanconelli

Deadline for manuscript submissions

31 October 2025

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.

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