Special Issue

Applied Mathematical Modeling in Oncology

Message from the Guest Editors

Mathematical modeling is increasingly vital in oncology, offering crucial insights into cancer biology and enabling improved prognosis, prediction, treatment planning, and intervention. Various applications range from analytical models to agent-based simulations of complex dynamics. Furthermore, advancements in imaging systems and experimental techniques provide unparalleled data for testing, validating, and enhancing proposed models. In this Special Issue, we solicit submissions with a focus on state-of-the-art contributions in the field of mathematical oncology that bring together novel modeling approaches including deterministic, stochastic, and agent-based models, guided and validated by experimental data.

Guest Editors

Prof. Dr. Benito Chen-Charpentier

Dr. Souvik Roy

Prof. Dr. Hristo V. Kojouharov

Deadline for manuscript submissions

30 November 2025

MDPI

Σ

Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6

mdpi.com/journal/mathematics

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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:
indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

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

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).