Special Issue

Numerical Methods in Mathematical Ecology

Message from the Guest Editor

In the tradition of mathematical ecology, very important scientific disciplines have been developed, almost in parallel, such as mathematical epidemiology. Besides the use of dynamical systems, several other tools have been utilized to study biological systems, notably network theory. Network models are used to investigate the effects of network topology on different properties of biological communities. At the same time, the relationship between some component of the complexity/diversity of ecosystems and the different measures of stability has historically been the cornerstone of mathematical ecology. We invite our colleagues to submit papers related to ecology as studied using different mathematical methods. We especially encourage contributions employing novel methods in the study of questions in mathematical ecology.

Guest Editor

Dr. Giorgos Kokkoris

Department of Marine Sciences, Faculty of the Environment, University of the Aegean, University Hill, GR81100 Mytilene, Lesvos Island, Greece

Deadline for manuscript submissions

closed (15 November 2022)

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).

MDPI