Discrete and Algebraic Mathematical Biology

Guest Editor:

Dr. Matthew Macauley
School of Mathematical & Statistical Sciences, Clemson University, Clemson, SC, USA

Deadline for manuscript submissions:
closed (15 June 2022)

Message from the Guest Editor

Dear Colleagues,

A number of biological problems have given birth to brand new subfields within pure mathematics, especially in computational algebra, discrete dynamical systems, and algebraic geometry. This Special Issue will welcome submissions from a wide variety of topics—everything from applied work to theoretical and pure mathematical topics that are off-shoots of biological problems. Examples of areas that this Special Issue can cover include but are not limited to the following:

- Boolean, logical, or agent-based models;
- Biochemical reaction networks;
- Discrete dynamical systems and cellular automata;
- Algebraic statistics;
- Neural codes;
- Genomics;
- Phylogenetics;
- Polytopes and optimization;
- Molecular structures;
- Protein and RNA folding;
- Analysis of Boolean functions;
- Dynamic processes over graphs;
- Topological data analysis;
- Problems from discrete mathematics and graph theory inspired by biology;
- Algebraic problems inspired by biology;
- Topological problems inspired by biology.

Special Issue

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 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), RePEc, and other databases.
Journal Rank: JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Contact Us