

Special Issue

Model Theory and Algebraic Logic: Theory, Computation, and Applications

Message from the Guest Editor

This Special Issue focuses on recent developments in Algebraic Logic and Model Theory. Our aim is to collect and present original, high-quality research articles that reflect recent achievements in model theoretic and algebraic logic. The scope of this Special Issue includes (but is not limited to) the following:

- The theory of algebras of relations of higher arity;
- Algebraic and relational semantics of nonclassical logics;
- Structural and categorical perspectives on definability, preservation, and interpretability;
- The model theory of homogeneous structures and its connection with finite combinatorics;
- Recent developments on model theoretic stability theory and its generalizations;
- The model theory of second (and higher) order logics.

In this Special Issue, we would like to exhibit the richness of contemporary research in the above areas. We would like to highlight the ongoing dialogue between algebraic abstraction and logical semantics, which promotes developments of both disciplines and further deepens our understanding of many aspects of mathematical structures.

Guest Editor

Dr. Gabor Sagi

1. Alfred Renyi Institute of Mathematics, Budapest, Hungary
2. Department of Algebra, Budapest University of Technology and Economics, Budapest, Hungary

Deadline for manuscript submissions

closed (31 July 2026)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 5.4



mdpi.com/si/266086

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 5.4



[mdpi.com/journal/
mathematics](https://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 17.4 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2026).