



Advanced Algebraic Geometry and Applications

Guest Editor:

Dr. Francisco Javier Gallego

Departamento de Álgebra,
Geometría y Topología and
Instituto de Matemática
Interdisciplinar, Universidad
Complutense de Madrid, Madrid,
Spain

Deadline for manuscript
submissions:

30 September 2024

Message from the Guest Editor

Dear Colleagues,

Algebraic geometry is a classical, central area of mathematics, tracing its origins to many centuries ago. This discipline has evolved over the decades from many different approaches—algebraic, analytic, local, global, etc.—gaining depth, scope, and sophistication and building new or strengthening existing connections and imbrications with many other areas of mathematics, such as commutative algebra, computer algebra, number theory, differential geometry, complex analysis, topology, and mathematical physics, among others. At the same time, algebraic geometry has produced applications in several fields, such as cryptography, code theory, phylogenetics, integer programming, and statistics, to name just a few.

The aim of this Special Issue of *Mathematics* is to show a glimpse of all these different perspectives and flavors, from the most classical themes that should never become old-fashioned to the newest trends in the field. Thus, we cordially invite you to present your recent contributions to this 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

Mathematics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)