

# Special Issue

## Mathematical Modelling in Agriculture

### Message from the Guest Editors

Dear Colleague, Agriculture has emerged to satisfy the requirements for food security, which is a new agricultural production mode with the support and means of the Internet of Things, big data, mobile Internet, and cloud computing technologies. The goals of Agriculture are to increase yields with a lower cost, labor, and environmental pollution response to global climate change and the post-COVID-19 era. It is also considers smart agriculture, which follows the stages of traditional, mechanized, and information-based agriculture. The complex connectivity among crops, farmlands, weather, equipment, and humans requires novel methodologies to analyze, manage, and control for increasing grain yield and production efficiency. Mathematical modeling is the most important tool and foundation for solving these real-life problems in agri-production. This Special Issue aims to collect high-quality research, focusing on the applications of mathematical modeling theory and techniques to the evaluation and management of agricultural production and the state-of-the-art technologies and methods used in Agriculture.

---

### Guest Editors

Prof. Dr. Yi-Jia Wang

Prof. Dr. Tianxiao Li

Prof. Dr. Zelong Yi

---

### Deadline for manuscript submissions

closed (10 June 2025)



## Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/220821](https://mdpi.com/si/220821)

*Mathematics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)

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





# Mathematics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 4.6



[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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).