

Special Issue

Mathematical Methods for Robotics, Vision, and Graphics

Message from the Guest Editor

As the field of artificial intelligence transitions toward embodied agents, the synergy between computer vision, graphics, and robotics has become increasingly vital. This Special Issue will focus on the mathematical foundations of visual perception and interaction within these domains. We aim to collect cutting-edge research that employs rigorous mathematical methods to solve complex problems in visual understanding, particularly for robotic systems and interactive environments. The goal is to bridge the gap between theoretical mathematical models and practical perception tasks—such as robust detection and segmentation—that enable agents to effectively perceive and navigate the physical world.

Guest Editor

Dr. Tie Liu

Information Engineering College, Capital Normal University, Beijing, China

Deadline for manuscript submissions

20 November 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 5.4



mdpi.com/si/271839

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).