





an Open Access Journal by MDPI

# **Mathematical Applications in Computer Graphics**

Guest Editors:

#### Dr. Xiaoqiang Zhu

School of Communication and Information Engineering, Shanghai University, Shanghai 200444, China

### Prof. Dr. Lihua You

National Centre for Computer Animation, Bournemouth University, Bournemouth BH12 5BB, UK

Deadline for manuscript submissions:

31 August 2025

## **Message from the Guest Editors**

Dear Colleagues,

Mathematics serves as the foundation for many of the most significant advancements in computer graphics. From geometric modeling to rendering techniques, mathematical principles enable the development of sophisticated algorithms that drive the creation and manipulation of complex visual data. This Special Issue aims to bring together cutting-edge research that leverages mathematical methodologies to address challenges and innovate within the field of computer graphics.

The convergence of mathematics and computer graphics has led to transformative progress in various applications, including virtual and augmented reality, digital arts, animation, and scientific visualization. However, many challenges remain, particularly in the efficient processing and rendering of complex data structures, real-time interaction, and accurate simulation of physical phenomena. This Special Issue seeks to highlight novel mathematical approaches that push the boundaries of what is possible in computer graphics.

We invite prospective authors to submit original manuscripts that explore mathematical techniques and their applications in computer graphics.



Specialsue







an Open Access Journal by MDPI

### **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 iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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**