



Advances in Mathematics Computation for Software Engineering

Guest Editors:

Dr. Ziaur Rahman

Faculty of Science, School of
Computer Science, Queensland
University of Technology (QUT),
Brisbane, QLD 4001, Australia

Dr. Dipankar Chaki

School of Computer Science &
Engineering, University of New
South Wales (UNSW), Sydney,
NSW 2052, Australia

Dr. Chao Lin

College of Computer and Cyber
Security, Fujian Normal
University, Qishan Campus, No. 1
Keji Road, Shangjie, Minhou
350117, China

Deadline for manuscript
submissions:

31 October 2024

Message from the Guest Editors

This Special Issue is dedicated to publishing original research papers that explore the intersection of mathematics and software engineering, particularly in the realm of computational advancements. It emphasizes the development of innovative theories and methods that contribute to this dynamic field. These tools are pivotal for mathematical computation and reasoning, especially in their application to scientific and engineering challenges.

A key area of focus is the convergence of mathematical computation with software engineering. This convergence, though highly abstract, is instrumental in advancing computer science. It delves into applied mathematics, particularly discrete mathematics, which plays a crucial role in converting continuous models into discrete forms, thereby facilitating the interaction between computers and human understanding.

Furthermore, this Special Issue highlights the growing importance of mathematical proofs in computer science. These proofs are essential for certifying the reliability of software and hardware systems, offering assurances beyond what testing alone can provide.





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 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, Grosspeteranlage 5
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)