## **Special Issue**

## Mathematics in Formal Methods and Model Checking

### Message from the Guest Editor

This Special Issue collects high-quality original research papers on "Mathematics in Formal Methods and Model Checking". It aims to bring together researchers and practitioners interested in automated tool-based techniques for the analysis of software as well as models of software for the purpose of verification and validation. The Special Issue specifically focuses on the analysis of both concurrent and sequential software. Submissions are solicited on theoretical results, novel algorithms, tool development, and empirical evaluation. The Special Issue also welcomes software analysis using any automated techniques, including model checking, automated theorem proving, and symbolic execution.

#### **Guest Editor**

Dr. Yehia Abd Alrahman

Department of Computer Science and Engineering, University of Gothenburg and Chalmers University of Technology, Gothenburg, Sweden

#### Deadline for manuscript submissions

10 September 2025



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Mathematics Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 mathematics@mdpi.com

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## 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

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