

## Special Issue

# Application of Finite Element Methods

### Message from the Guest Editors

Throughout its history, the finite element method has been applied in various ways and in various domains, from structural mechanics to electromagnetism, from thermal flow to fluid–structure interaction. This Special Issue is dedicated to exploring the recent advances in various applications of the finite element method and related methods. Specific methods, domains, and fields of applications include, but are not limited to:

- Finite element method;
- Semi-analytical finite elements;
- Smoothed finite element method;
- Extended finite element method;
- Scaled boundary finite element method;
- Structural mechanics
- Fluid dynamics;
- Thermal flow;
- Electromagnetism;
- Fluid-structure interaction;
- Mechanical engineering;
- Thermal engineering;
- Biomedical engineering;
- Nondestructive testing.

### Guest Editors

Dr. Martynas Patašius

Department of Applied Informatics and Institute of Biomedical Engineering, Kaunas University of Technology, Kaunas, Lithuania

Prof. Dr. Rimantas Barauskas

Department of Applied Informatics, Faculty of Informatics, Kaunas University of Technology, 51368 Kaunas, Lithuania

### Deadline for manuscript submissions

closed (31 October 2023)



## Computation

an Open Access Journal  
by MDPI

Impact Factor 1.9  
CiteScore 4.1



[mdpi.com/si/122244](https://mdpi.com/si/122244)

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

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





# Computation

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.9  
CiteScore 4.1



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



## About the Journal

### Message from the Editor-in-Chief

You are invited to submit the results of your research for consideration and publication in *Computation*, an international open access journal, which is published monthly online by MDPI.

The editorial board and staff of *Computation* are dedicated to establishing a benchmark journal for the world scientific and engineering communities for original research articles, reviews, conference proceedings (i.e., peer reviewed full articles), and communications, in the cutting-edge areas of computational biology, computational chemistry, computational social science and computational engineering.

---

### Editor-in-Chief

Prof. Dr. Ali Cemal Benim

Center of Flow Simulation (CFS), Department of Mechanical and Process Engineering, Duesseldorf University of Applied Sciences, D-40476 Duesseldorf, Germany

---

### Author Benefits

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), CAPus / SciFinder, Inspec, dblp, and other databases.

#### Journal Rank:

JCR - Q2 (Mathematics, Interdisciplinary Applications) /  
CiteScore - Q1 (Applied Mathematics)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.7 days after submission; acceptance to publication is undertaken in 5.6 days (median values for papers published in this journal in the first half of 2025).