Special Issue

Trends in Simulation and Its Applications

Message from the Guest Editors

Works related to numerical approaching theory and computer simulation with direct applications in physics such as fluid flow, heat and mass transfer, mechanics, industrial processing analysis based on simulation are also welcome. Topics of interest include but are not limited to:

- Analysis methodology
- Data science for simulation
- Digital twins and Industry 4.0
- Markov chain Monte Carlo theory and applications
- Model uncertainty and robust simulation
- Simulation input analysis
- Simulation optimization
- Simulation output analysis
- Numerical approaching theory
- Computational fluids dynamics
- Fundamentals of physics with mathematical and computational applications
- Computer simulation of industrial processes
- Simulation applications: supervised learning in all areas, environmental sciences, climate sciences, biomedical sciences, chemical sciences and chemometrics, econometrics and finance, engineering design, astronomy and physics, agronomy and forestry sciences, energy, sustainable development, mining sciences, social web, information and communications technology, security, biometry, internet of things, natural disaster modeling.

Guest Editors

Prof. Dr. David F. Muñoz

Prof. Dr. Rodolfo Morales

Prof. Dr. Adán Ramírez-López

Prof. Dr. Vladimir Strezov

Dr. Alejandro Mac Cawley

Deadline for manuscript submissions

closed (31 October 2023)

AppliedMath

AppliedMath

About the Journal

Message from the Editor-in-Chief

Mathematics permeates all kinds of academic worlds and is a fountain flowing with innovative development. The journal *AppliedMath*, publishing high-quality refereed papers discussing various aspects of applied mathematics, is dedicated to promoting the integration of mathematics with applied disciplines to cultivate a profitable frontier of mathematics. The journal highlights articles devoted to the mathematical treatment of questions and phenomena arising in physics, chemistry, biology, medicine, pharmacy, engineering, information science, social sciences, and humanities. One of the missions of this journal is to serve scientists by quickly announcing the seeds of significant mathematical breakthroughs in science and technology.

Editor-in-Chief

Prof. Dr. Takayuki Hibi
Department of Pure and Applied Mathematics, Graduate School of Information Science and Technology, Osaka University, 1-5 Yamadaoka, Suita 565-0871, Osaka, Japan

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 23.5 days after submission; acceptance to publication is undertaken in 6.9 days (median values for papers published in this journal in the first half of 2025).