



Special Issue for the 64th International Conference of Scandinavian Simulation Society, SIMS 2023

Guest Editors:

Prof. Dr. Konstantinos Kyprianidis

School of Business Society and Engineering, Division of Automation in Energy and Environmental Engineering, Mälardalen University, 72123 Vasteras, Sweden

konstantinos.kyprianidis@mdu.se

Prof. Dr. Erik Dahlquist

Business, society and engineering, Future Energy Center, Mälardalen University, 72123 Vasteras, Sweden

erik.dahlquist@mdu.se

Dr. Ioanna Aslanidou

School of Innovation, Design and Engineering, Division of Product Realisation, Mälardalen University, 72123 Vasteras, Sweden

ioanna.aslanidou@mdu.se

Deadline for manuscript submissions:



2023

mdpi.com/si/168182

Message from the Guest Editors

This Special Issue will include a selection of papers deemed as journal quality from the 64th International Conference of Scandinavian Simulation Society, SIMS 2023.

Conference Themes:

- Modeling and simulation for design, planning, optimization, control and monitoring;
- Tools for modeling and simulation, numerical methods for simulation and novel techniques;
- Visualization of modeling and simulation results;
- Practical case studies of industrial automation.

Application areas include:

- Renewable energy systems: bioenergy and biofuels, geothermal, hydro, solar, thermal, wave, tidal and wind energy;
- Hydrogen technologies: production, storage and transportation and hydrogen value chain;
- Energy systems: electric power, energy storage, fuel cells, heat pumps, industrial plants, energy use in buildings and power plants;
- Transportation: automotive, hybrid and electrical vehicles, marine and infrastructure;
- Industrial processes including carbon capture and storage, chemical processing, hydrogen production, oil and gas and water treatment;
- Cyber-physical systems;
- Biosystems and medical systems.



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Takayoshi Kobayashi

Advanced Ultrafast Laser
Research Center, The University
of Electro-Communications, 1-5-
1, Chofugaoka, Chofu, Tokyo
182-8585, Japan

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q2 (*General Engineering*)

Contact Us

Applied Sciences
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[@Applsci](https://twitter.com/Applsci)