

## Special Issue

# Advances in Agent-Based Modelling and Simulation for Industrial and Public Assets

### Message from the Guest Editors

This Special Issue explores the latest advancements in agent-based modelling and simulation for industrial assets. It aims to highlight innovative research and practical applications that leverage agent-based modelling and simulation to enhance the operation, and maintenance of industrial assets such as machinery, equipment, and infrastructure. This Special Issue seeks to provide valuable insights for researchers, practitioners, and industry professionals dedicated to improving the efficiency, availability, reliability, maintainability, supportability, safety and sustainability over the entire lifespan of industrial assets through cutting-edge modelling and simulation techniques.

Prof. Dr. Yiliu Liu

---

### Guest Editors

Dr. Idriss El-Thalji

Department of Mechanical and Structural Engineering and Materials Science, University of Stavanger, 4036 Stavanger, Norway

Prof. Dr. Yiliu Liu

Department of Mechanical and Industrial Engineering, Norwegian University of Science and Technology, 7491 Trondheim, Norway

---

### Deadline for manuscript submissions

31 July 2025



## Modelling

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.3  
CiteScore 2.7



[mdpi.com/si/222458](https://mdpi.com/si/222458)

### *Modelling*

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

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





# Modelling

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.3  
CiteScore 2.7



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



## About the Journal

### Message from the Editorial Board

---

#### Editors-in-Chief

Prof. Dr. Alfredo Cuzzocrea

1. DISPES Department, University of Calabria, 87036 Rende, Italy

2. Institute of High Performance Computing and Networking, Italian  
National Research Council, Via P. Bucci, 7/11C, 87036 Rende, Italy

Prof. Dr. Wei Gao

School of Civil and Environmental Engineering, Faculty of Engineering,  
University of New South Wales, Sydney, NSW 2052, Australia

---

#### Author Benefits

##### High Visibility:

indexed within ESCI (Web of Science), Scopus, Ei  
Compendex, EBSCO and other databases.

##### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 18.9 days after  
submission; acceptance to publication is undertaken in 3.9  
days (median values for papers published in this journal in  
the second half of 2024).

##### Journal Rank:

CiteScore - Q1 (Mathematics (miscellaneous))