# **Special Issue**

# **Agent-Based Modelling**

## Message from the Guest Editors

In the last 30 years, agent-based modeling (ABM) and related similar approaches with different nuances and names (e.g., agent-based systems (ABSs), individualbased modeling (IBM), multi-agent systems (MASs), or multi-agent-based simulations (MABSs)) have shifted from being a heterodox modeling approach to become a recognized research methodology, in many cases one of the mainstream modeling techniques, in a wide range of scientific disciplines. This modeling approach presents important advantages, since it facilitates the abstraction of complex systems, the integration of spatial elements, including heterogeneity in the representation, and enables the use of computers as an inference engine. However, it also entails some problems such as the use of induction for the generalization of results, the verification and validation of the models, or the reuse of code and scalability. This Special Issue not only aims to advance the methodological elements of the modeling process using agent technologies, but also to showcase rigorous uses of theoretical and empirical ABM in different applied domains and disciplines. Fore more information: https://www.mdpi.com/si/50169

#### **Guest Editors**

Prof. Dr. José Manuel Galán

- Dr. José Ignacio Santos
- Dr. Rubén Fuentes-Fernández

Deadline for manuscript submissions

closed (30 September 2021)



an Open Access Journal by MDPI

Impact Factor 1.5 CiteScore 2.2



mdpi.com/si/50169

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

mdpi.com/journal/

modelling





# Modelling

an Open Access Journal by MDPI

Impact Factor 1.5 CiteScore 2.2



modelling



## About the Journal

### Message from the Editorial Board

We encourage you to contribute a research or comprehensive review article for consideration and publication in *Modelling* (ISSN 2673-3951), an international open access journal, which is published quarterly online by MDPI. The editorial board and staff of *Modelling* are dedicated to providing an advanced forum for studies related to the development and applications of modelling and simulation techniques. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications.

#### 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 19.5 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q2 (Mathematics (miscellaneous))