Special Issue

Identification, Knowledge Engineering and Digital Modeling for Adaptive and Intelligent Control, 2nd Edition

Message from the Guest Editors

The advent of digitalization at the end of the 20th century drastically changed current approaches to management and control. Intelligent control techniques based on neural networks, fuzzy models, and machine and reinforcement learning demonstrate the highest performance. Digital twins are becoming increasingly popular. The aim of this Special Issue is to review and discuss the recent advances and novelties in the field of intelligent control with adjustable models. Researchers are invited to discuss control problems such as: the creation of enterprise control and digital ecosystems; identification theory, methodology and the related mathematical problems; parametric, nonparametric and structural identification; control systems with an identifier; modelling in intelligent systems; simulation procedures and software; digital identification; reinforcement learning; quantum modeling; intelligence in model predictive control; predictive cognitive methods; software quality for complex systems; and global network resources for modeling and control. We welcome both research and overview articles and look forward to an active discussion on these and related issues.

Guest Editors

Prof. Dr. Natalia Bakhtadze

Prof. Dr. Igor Yadykin

Prof. Dr. Andrei Torgashov

Prof. Dr. Nikolay Korgin

Deadline for manuscript submissions

closed (31 October 2023)

Σ

Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 4.6

mdpi.com/journal/
mathematics

MDPI

About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Author Benefits

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

Journal Rank:
JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).