

Special Issue

Advanced Reinforcement Learning in Internet of Things Networks

Message from the Guest Editors

The proliferation of the Internet of Things (IoT) has revolutionised how devices, systems, and people interact. IoT networks are increasingly complex, dynamic, and heterogeneous, posing significant challenges in resource allocation, energy efficiency, security, and scalability. Reinforcement learning (RL), particularly deep RL and multi-agent RL, has emerged as a powerful tool to address these challenges, enabling intelligent decision making and adaptive control in IoT ecosystems. This Special Issue seeks to gather innovative research and cutting-edge developments in applying RL techniques to optimise IoT networks. We invite contributions addressing theoretical advancements, novel algorithms, system architectures, and practical applications of RL in the context of IoT. Submissions focusing on interdisciplinary approaches and real-world deployments are especially encouraged.

Guest Editors

Dr. Saurav Sthapit

Research Centre for Computational Science and Mathematical Modelling, University of Warwick, Coventry, UK

Dr. Seong Ki Yoo

1. School of Computing, Electronics and Mathematics, Coventry University, Coventry, UK
2. Associate, Faculty Research Centre for Data Science, Coventry University, Coventry, UK

Deadline for manuscript submissions

closed (10 November 2025)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/232709

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

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





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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



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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).