

# 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

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## Mathematics

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

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### Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,  
The Gateway, Leicester LE1 9BH, UK

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