

Special Issue

Advances in Reinforcement Learning

Message from the Guest Editor

Reinforcement Learning (RL), in which the agents learn by interacting with the environment, is one of the most exciting areas of Artificial Intelligence. Many RL algorithms have been proposed in the last few years, and the success of RL has been demonstrated in many practical applications in the fields of robotics, autonomous vehicles, communication systems, game playing, finance, healthcare, adaptive decision control, among others. Some of the challenges yet to be resolved, both for single- and Multi-Agent RL systems, include real-time adaptation to nonstationary or stochastic environments, high-dimensional continuous state and action spaces, adversarial RL including both attacks and defenses, partial observability of the environment, RL under interference or noisy environments, and safety control. To provide some of the solutions to the challenging problems of RL, we propose this Special Issue on “Advances in Reinforcement Learning”. With this aim, we invite papers in both theoretical and applied research areas related to RL and MARL. We believe this Special Issue will contribute to advancing the state of the art in reinforcement learning.

Guest Editor

Prof. Dr. Ausif Mahmood

Chair, Department of Computer Science and Engineering, Professor of Computer Science and Engineering, and Electrical Engineering, University of Bridgeport, Bridgeport, CT 06604, USA

Deadline for manuscript submissions

closed (15 March 2022)



Machine Learning and Knowledge Extraction

an Open Access Journal
by MDPI

Impact Factor 6.0
CiteScore 9.9



mdpi.com/si/64018

*Machine Learning and
Knowledge Extraction*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
make@mdpi.com

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





Machine Learning and Knowledge Extraction

an Open Access Journal
by MDPI

Impact Factor 6.0
CiteScore 9.9



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



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Andreas Holzinger

1. Human-Centered AI Laboratory, Institute of Forest Engineering,
Department of Forest and Soil Sciences, University of Natural
Resources and Life Sciences, 1190 Vienna, Austria

2. xAI Laboratory, Alberta Machine Intelligence Institute, University of
Alberta, Edmonton, AB T5J 3B1, Canada

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), dblp, and
other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 25.5 days after
submission; acceptance to publication is undertaken in 3.4
days (median values for papers published in this journal in
the first half of 2025).

Journal Rank:

JCR - Q1 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Engineering (miscellaneous))