

Special Issue

Language Acquisition and Understanding

Message from the Guest Editors

The remarkable capabilities of Large Language Models have pushed the boundaries of artificial intelligence, yet they also highlight a fundamental gap between statistical pattern matching and genuine comprehension. This Special Issue seeks to explore the critical relationship between how an AI system learns language (acquisition) and what it truly understands. We invite novel research that moves beyond scaling data and parameters to address the core mechanisms of language understanding. We are particularly interested in work that draws inspiration from human cognition, such as data-efficient learning inspired by child development, grounded acquisition that links language to perception and action, and the emergence of compositional reasoning. Topics of interest include, but are not limited to the following:

- Low-resource and continual language learning;
- Grounded language acquisition in embodied agents;
- Emergent communication and symbolic reasoning;
- The role of interaction and social learning in AI;
- New benchmarks for evaluating deep understanding over surface fluency.

Guest Editors

Dr. Michal Ptaszynski

Dr. Rafal Rzepka

Prof. Dr. Masaharu Yoshioka

Deadline for manuscript submissions

15 July 2026



Machine Learning and Knowledge Extraction

an Open Access Journal
by MDPI

Impact Factor 6.0
CiteScore 9.9



mdpi.com/si/247036

*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))