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Machine Learning and Knowledge Extraction

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Message from the Editor-in-Chief

Machine learning deals with understanding intelligence to design algorithms that can learn from data, gain knowledge from experience and improve their learning behaviour over time. The challenge is to extract relevant structural and/or temporal patterns (“knowledge”) from data, which is often hidden in high dimensional spaces, thus not accessible to humans. Many application domains, e.g., smart health, smart factory, etc. affect our daily life, e.g., recommender systems, speech recognition, autonomous driving, etc. The grand challenge is to understand the context in the real-world under uncertainty. Probabilistic inference can be of great help here as the inverse probability allows to learn from data, to infer unknowns, and to make predictions to support decision making.

Editor-in-Chief

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Aims

Machine Learning and Knowledge Extraction (ISSN 2504-4990) provides an advanced forum for studies related to all areas of machine learning and knowledge extraction. It publishes reviews, regular research papers, communications, perspectives, and viewpoints, as well as Special Issues on particular subjects.

The aim of *Machine Learning and Knowledge Extraction* is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. Therefore, the journal has no restrictions regarding the maximum length of papers. Full experimental details should be provided so that the results can be reproduced.

Scope

The scope of *MAKE* includes:

- Machine learning
- Knowledge representation
- Artificial intelligence
- Knowledge extraction
- Neural network
- Natural language processing
- Unsupervised learning
- Privacy
- Uncertainty
- Transfer learning
- Image classification
- Information retrieval
- Feature selection
- Visualization
- Network- and graph-based machine learning
- Geometric machine learning and topology
- Entropy and machine learning applications

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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)

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Editorial Office

make@mdpi.com

MDPI

Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

mdpi.com

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