

## Special Issue

# Machine Learning Algorithms and Data Structures

### Message from the Guest Editors

This Special Issue delves into the interpretability and comprehension of machine learning algorithms by examining the forms, transformations, and optimizations of data structures during the learning process.

We are, therefore, interested in articles that investigate the relationship between machine learning algorithms and data structures with a particular focus on interpretability. Potential topics include, but are not limited to, the following:

Exploring the limits of algorithm interpretability through data structure optimization.

Knowledge extraction from less-reproducible data structure states during algorithm operation.

Model-based approaches and data fusion techniques that leverage data structure analysis to enable new forms of algorithmic comprehension.

Scaling interpretability methods from theoretical models to real-world applications.

Application case studies demonstrating interpretability improvements.

We look forward to receiving your contributions.

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### Guest Editors

Dr. Hongwei Dong

Dr. Lingyu Si

Dr. Wenwen Qiang

Dr. Mirka Saarela

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### Deadline for manuscript submissions

20 September 2026



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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