

## Special Issue

# Innovative Data Mining Techniques for Advanced Recommender Systems

### Message from the Guest Editors

This Special Issue focuses on innovative data mining techniques that enhance the efficacy and accuracy of these systems across various applications, including e-commerce, content streaming, and social media. We invite contributions that explore methodologies such as collaborative filtering, content-based filtering, and hybrid approaches, alongside emerging techniques like explainable recommendation, cross-domain recommendation, and large language model-based recommendation. Additionally, we encourage authors to address challenges related to fairness in recommendation, bias in recommender systems, and the trustworthiness of recommendations. We also welcome studies on causal recommendation and contextualized recommendation. Case studies showcasing real-world applications and empirical evaluations of proposed methods are highly encouraged. By fostering a comprehensive understanding of these critical aspects, this Special Issue aims to contribute valuable insights and pave the way for future research in the rapidly evolving field of artificial intelligence.

### Guest Editors

Dr. Yue Kou  
Dr. Xiangmin Zhou  
Dr. Chaochao Chen

### Deadline for manuscript submissions

closed (20 December 2025)



## Applied Sciences

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## About the Journal

### 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

Prof. Dr. Giulio Nicola Cerullo  
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