



## Challenges and New Opportunities for Next-Generation Recommender Systems

Guest Editors:

**Dr. Peng Liu**

Department of Computer Science, Norwegian University of Science and Technology, NO-7491 Trondheim, Norway

**Dr. Lemei Zhang**

Department of Computer Science, Norwegian University of Science and Technology, NO-7491 Trondheim, Norway

**Dr. Yong Zheng**

Department of Information Technology and Management, College of Computing, Illinois Institute of Technology, Chicago, IL 60616, USA

Deadline for manuscript submissions:

**15 April 2025**

### Message from the Guest Editors

Dear Colleagues,

This special issue solicits the latest and significant contributions on developing and applying efficient user modeling and advanced machine learning techniques for building next-generation recommender systems and particularly on data and model-driven intelligent recommender systems. Topics of interest include but are not limited to, the following:

- Cross-domain/source recommendation
- Context-aware/group/multi-criteria/multi-objective recommender systems
- Multi-modal recommendation
- Explainability/transparency in recommender systems
- Fairness/bias in recommender systems
- Efficient and scalable recommendation techniques
- Pre-trained recommendation model
- Self-supervised learning for recommendation
- Data sparsity, cold start and long-tail issues in recommender systems
- Knowledge transfer and distillation in recommender systems
- Surveys, reviews and prospects on next-generation recommender systems





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

**Journal Rank:** JCR - Q2 (*Physics, Applied*) / CiteScore - Q2 (*Control and Systems Engineering*)

## Contact Us

---

Electronics Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://x.com/electronicsMDPI)