



## New Trends in Artificial Intelligence for Recommender Systems and Collaborative Filtering

Guest Editors:

**Prof. Dr. Ángel González-Prieto**

Dpto. Sistemas Informáticos,  
ETSI de Sistemas Informáticos,  
Universidad Politécnica de  
Madrid, Madrid, Spain

**Prof. Dr. Fernando Ortega**

Dpto. Sistemas Informáticos,  
ETSI de Sistemas Informáticos,  
Universidad Politécnica de  
Madrid, Madrid, Spain

Deadline for manuscript  
submissions:

**closed (30 September 2022)**

### Message from the Guest Editors

In the latest years, the Recommender System community has proposed new astonishing and very innovative Recommender System solutions. Currently, the area is suffering an exciting revolution of the traditional collaborative filtering methods, based on Matrix Factorization and K-Nearest Neighbors, to incorporate cutting-edge technologies. Neural Networks, Deep Learning, model explainability or fair prediction, among others, are making their way in the realm of Recommender Systems, importing techniques from other Artificial Intelligence areas to provide novel approaches.

In this Special Issue, we aim to widen the boundary of knowledge in Collaborative Filtering based Recommender Systems with new proposals incorporating avant-garde trends in Artificial Intelligence. In addition, novel applications to Recommender Systems techniques to address new challenging problems are very welcome to this Special Issue.

keywords: Recommender Systems; Collaborative Filtering; Deep Learning; model explainability; fairness





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## 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.

## 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), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)