



ACM Transactions on Recommender Systems

Special Issue on Causal Inference for Recommender Systems

Guest Editors:

- **Yongfeng Zhang**, Rutgers University, US, yongfeng.zhang@rutgers.edu
- **Xu Chen**, Renmin University of China, China, xu.chen@ruc.edu.cn
- **Da Xu**, Walmart Labs, US, daxu5180@gmail.com
- **Tobias Schnabel**, Microsoft Research Redmond, US, tobias.schnabel@microsoft.com
- **Huan Liu**, Arizona State University, US, huanliu@asu.edu

Recommender Systems have become an essential part of daily human life and they widely exist in almost every corner of the web. However, the recommender system community still faces many important problems to address such as explainability, fairness, bias, robustness, privacy, and controllability of recommender systems. Recent advances on causal inference, casual analysis, counterfactual reasoning, causal machine learning and related techniques led to new approaches to addressing these problems. To advance towards new solutions to the above important problems, this special issue welcomes a wide scope of recommender system research.

Topics

The special issue will feature research that addresses questions of explainability, fairness, bias, robustness, privacy, controllability, and related challenges of recommender systems. While causal inference approaches to addressing such problems are in the focus, papers that rely on alternative techniques beyond causal inference to tackle the above problems are also welcome. Papers describing novel datasets, metrics and evaluation protocols as well as surveys and user studies related to these topics are in the scope as well.

The topics of interest include, but are not limited to, the use of causal inference and related approaches for addressing the definition, algorithm, evaluation, dataset, or application of the following challenges:

- Explainability of Recommender Systems
- Fairness of Recommender Systems
- Bias in Recommender Systems
- Robustness of Recommender Systems
- Controllability of Recommender Systems

Important Dates

- Submissions deadline: December 15, 2022
- First-round review decisions: February 1, 2023
- Deadline for revision submissions: March 15, 2023
- Notification of final decisions: May 1, 2023

Submission Information

The special issue welcomes research papers, survey papers and perspective papers. The special issue will also consider extended versions (at least 30% new content) of papers published at related conferences such as ACM RecSys, SIGIR, KDD, CIKM, WSDM, ACL, etc. See the ACM TORS author guidelines for more information (<https://dl.acm.org/journal/tors/author-guidelines>).

Authors are invited to prepare their manuscript adhering to the ACM TORS submission guidelines, and to submit it via Manuscript Central (<https://mc.manuscriptcentral.com/tors>).

For questions and further information, please contact Yongfeng Zhang at yongfeng.zhang@rutgers.edu.