

IEEE Transactions on Consumer Electronics

Call for Papers

Special Section on “User Behavior Modeling for Trustworthy Recommendation over Consumer Electronics Products”

Theme:

With the development of electronic techniques, more and more consumer electronics products appear, such as mobile devices, smartphones, wearables, tablets, and wireless charging platforms. Accurate and trustworthy consumer electronics product recommendation can improve user experiences and thus attract more consumers.

Consumer Behavior Modeling plays a critical role in user interest learning, and has been extensively used in recommender systems to improve recommendation accuracy. The exploration of key interactive patterns between consumers and items has yielded significant improvements and great commercial success across a variety of recommendation tasks. Consumer behavior modeling has wide industrial applications and can provide effective practical values.

Moreover, fairness, non-discrimination, transparency, privacy, and security are important directions in the context of recommender systems and trustworthy AI systems. Trustworthy consumer electronics products recommendations have attracted more and more attentions in both research and industry communities.

This special section is devoted to the most recent developments and research outcomes addressing the related theoretical and practical aspects on consumer behavior modeling for trustworthy recommendation over consumer electronics products. It also aims to provide worldwide researchers and practitioners an ideal platform to innovate new solutions targeting at the corresponding key challenges. High-quality original research and review articles in this area are expected.

Topics of interest in this Special Section include (but are not limited to):

- Conventional consumer behavior modeling
- Long-Sequence Memory-augmented Consumer behavior retrieval methods
- Multi-Type consumer behavior modeling
- Consumer behavior modeling with side information
- Trustworthy AI-empowered consumer recommendation
- Consumer privacy protection in recommendation systems
- Privacy and Security Issues over consumer behavior data
- Data Fusion techniques in consumer behavior understanding
- Big data analytics for federated learning for personalized consumer recommendation

Important dates:

- End of submission of Manuscripts: June 30, 2024
- Expected publication date (tentative): 1st quarter, 2025

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Instructions for authors:

Manuscripts should be prepared following guidelines at: <https://ctsoc.ieee.org/publications/ieee-transactions-on-consumer-electronics.html> and must be submitted online following the IEEE Transactions on Consumer Electronics instructions: <https://ctsoc.ieee.org/publications/ieee-transactions-on-consumer-electronics.html>. During submission, the Special Section on **“User Behavior Modeling for Trustworthy Recommendation over Consumer Electronics Products”** should be selected.