



## **WI-IAT 2022 The 1st International Workshop on the Fundamentals and Advances of Recommendation System(FA-RS)**

### **Introduction**

Recommendation system (RS) is a research field combining data mining, prediction algorithm, machine learning and other disciplines. The recommendation system can effectively filter and screen information, and help users retrieve information resources that meet their needs in a personalized way, so as to alleviate the problem of information overload. At present, it has been applied to education, music, e-commerce, social networking and other fields. The research on how to build an efficient and accurate recommendation system is of great significance. In recent years, many new ideas and methods have been emerging, which has greatly promoted the development of the recommendation system.

In this workshop, We will spend half a day sharing the “Fundamentals and Advances of Recommendation System”. we will welcome researchers from various domains to discuss and share latest progresses related to recommendation system, knowledge representation, deep learning, knowledge graph, deep graph mining, and natural language processing to share latest developments to promote innovative semantic approaches to address pressing needs of recommendation system in various fields.

### **Topics of Interest**

The topic of this special session will include but not limit to:

- Collaborative Filtering
- Sequential/Session-based Recommendations
- Knowledge-aware Recommendations
- Feature Interactions
- Conversational Recommender System
- Social Recommendations
- News Recommendation
- Text-aware Recommendations
- Knowledge Graph for RS
- CTR Prediction for RS
- POI
- Online Recommendations
- Group Recommendation
- Multi-task/Multi-behavior/Cross-domain Recommendations

- Debias in Recommender System
- Fairness in Recommender System
- Attack in Recommender System
- Explanation in Recommender System
- Long-tail/Cold-start in Recommendations
- Diversity in Recommendations
- Evaluation
- Pre-training in Recommender System
- Reinforcement Learning in Recommendations
- Knowledge Distillation in Recommendations
- Federated Learning in Recommendations
- GNN in Recommendations

**Organizer:**

Prof. Jingyu Sun,

College of software Taiyuan University of Technology ,

[sunjingyu@tyut.edu.cn](mailto:sunjingyu@tyut.edu.cn)

Tel: 18635116562

Prof. Hongwei Xie,

College of software Taiyuan University of Technology ,

[xiehongwei@tyut.edu.cn](mailto:xiehongwei@tyut.edu.cn)

Tel: 13015370665

**Important Dates:**

Deadline for submission: July 1th, 2022

Paper acceptance notification: August 1th, 2022

Camera ready paper submission: September 1th, 2022