

Title: Leveraging Knowledge Graph and Causality Analysis for Recommender Systems

Abstract:

Knowledge Graph (KG) is a large-scale semantic network consisting of entities/concepts as well as the semantic relationships among them, which could be considered as a concise version of Semantic Web. Recently KG is emerging as a hot topic of knowledge discovery and management under artificial intelligence, facilitating semantic computing. Causal relation is a reflection of user behaviors with backend intention, which is related another emerging hot topic – recommendation interpretability. This talk will cover the recent research progresses in these two areas and highlight some open research challenges in recommender systems.

Bio

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Prof Guandong Xu's key research interests cover Data Science, Data Analytics, Recommender Systems, Web Mining, User Modelling, NLP, Social Network Analysis, and Social Media Mining. He has published three monographs, dozens of book chapters and edited conference proceedings, and 200+ journal and conference papers in top journals and conferences. He leads Data Science and Machine Intelligence Lab at UTS. He is the assistant Editor-in-Chief of World Wide Web Journal and has been serving in editorial board or as guest editors for several international journals, such as Social Network Analysis and Mining, the Computer Journal, Journal of Systems and Software, World Wide Web Journal, Multimedia Tools and Applications, and Online Information Review. He has received a number of Awards from academia and industry community, such as 2018 Top-10 Australian Analytics Leader Award.