Program: 2021 INFORMS Workshop on Data Science

http://2021.dsconf.cc/

Saturday, November 13, 2021
All sessions will be held live on Zoom

All times Pacific Standard Time (PST)

Time		
07:45-08:00	**Opening remarks** (Conference Chairs)	
08:00-09:00	**Keynote speech** (Moderator: Shawn Mankad, Cornell University)	
	Keynote Speaker Jon Kleinberg (Tisch University Professor, Department of Computer Science & Department of Information Science, Cornell University)	
09:00-09:15	Break	
09:15-10:15	**Session 1A: Retail and Recommendation Systems**	**Session 1B: Algorithm Design**
	Predicting Stages in Omnichannel Path to Purchase: A Deep Learning Model Chenshuo Sun, Panagiotis Adamopoulos, Anindya Ghose, Xueming Luo	Covariate Balanced Contextual Multi-Armed Bandits Wangcheng Yan, Wenjun Zhou
	When Will Your Package Arrive? Real-Time Delivery Time Forecasting and Promising in Online Retailing Sheng Liu, Nooshin Salari, Zuo-Jun Shen **(Best paper nominee)**	Clustering then Estimation of the Spatio-Temporal Self-Exciting Processes Donglin Zhan, Haoting Zhang, Jinghai He, Yuqi Wang, Zhenyi Wang, Zeyu Zheng
	A Dynamic Demand Satiation Model for Offline Store Recommendations Jiangning He, Weikun Wu, Fan Zhang **(Best paper nominee)**	A Non-parametric Machine Learning Model for Asynchronous Time Series Zheng Zhang **(Best student paper nominee)**
10:15-10:30	Break	
10:30-11:30	**Session 2A: Deep Learning and Social Networks (short presentations)**	**Session 2B: Personalization and Pricing (short presentations)**
	Privacy-Preserving Credit Risk Prediction with Social Network Data Hongzhe Zhang, Xiao Fang	Learning Faces to Predict Matching Probability in an Online Dating Market Soonjae Kwon, Sung-Hyuk Park, Gene Moo Lee, Dongwon Lee
	A Novel Deep Learning-Based Multilabel Classification Method for Text Mining Anqi Xu, Xiao Liu, Paul Hu	Counterfactual Fairness for Recommendation System: Model, Identification and Measurement Shangkun Che, Hongyan Liu, Xiaojie Mao
	Preserving Degree Distributions When Sampling from Networks Abhijeet Ghoshal, Syam Menon, Sumit Sarkar	Optimal Price Targeting Adam Smith, Stephan Seiler, Ishant Aggarwal
	Corporate Social Network Analysis: A Deep Learning Approach Rui Cao, Gene Moo Lee, Hasan Cavusoglu	Building Analytics Resilience: A Big Data Empowered Reinforcement Learning Approach Jingjing Li, Jingyuan Yang, Yuan Qu
11:30-13:00	Lunch break	
13:00-14:00	**Business Meeting**	
14:00-14:15	Break	
14:15-15:15	**Session 3A: Network Analytics**	**Session 3B: Healthcare**
	Data-driven Clustering and Feature-based Retail Electricity Pricing with Smart Meters Bora Keskin, Yuexing Li, Nur Sunar	Healthcare Predictive Analytics Framework for Short-term Multiple Disease Prediction in Critical Care Buomsoo (Raymond) Kim, Karthik Srinivasan, Sudha Ram **(Best student paper nominee)**
	Hierarchy2vec-Representation Learning in Hierarchical Collaboration Networks for Team Performance Prediction Sulyun Lee, Kang Zhao **(Best student paper nominee)**	An Interpretable Deep Learning Approach to Understand Health Misinformation Transmission on YouTube Jiaheng Xie, Yidong Chai, Xiao Liu
	Structural Hole-based Measures of Firm's Strategic Competitive Positioning Myunghwan Lee, Gene Moo Lee, Hasan Cavusoglu, Marc-David L. Seidel	Responsible IS by Design: A Psychology-Informed Social Connection Recommender System for Mental Health Siyuan Liu, Jingjing Li, Kunpeng Zhang, Shaojie Tang **(Best paper nominee)**
15:15-15:30	Break	
15:30-17:00	**Editors Panel Discussion** Moderator: Ahmed Abbasi (University of Notre Dame), Senior Editor, *Information Systems Research*	
	Panelist Andrew Burton-Jones (University of Queensland), Editor-in-Chief, *MIS Quarterly* Alok Gupta (University of Minnesota), Editor-in-Chief, *Information Systems Research* Subodha Kumar (Temple University), Deputy Editor, *Productions and Operations Management* Olivia Sheng (University of Utah), Senior Editor, *INFORMS Journal on Data Science* DJ Wu (Georgia Institute of Technology), Department Editor (IS), *Management Science*	
17:00-17:30	**Awards Announcement and Closing Remarks**	