Program: 2020 INFORMS Data Science Workshop

Saturday, November 7, 2020

For instructions on navigating the INFORMS Virtual Conference, click here (video)

9:00 AM to 10:00 AM	**DS01 Editorial Panel Session (live)** https://cattendee.abstractsonline.com/meeting/9022/Session/3481 (Joint panel with the Data Mining and Decision Analytics Workshop) Moderator: Maytal Saar-tsechansky (UT Austin), associate editor at Management Science and ISR. **Panelists:** • Paul Brooks (VCU), area editor at INFORMS Journal on Computing • Anindya Ghose (NYU), department editor at Management Science • Balaji Padmanabhan (USF), associate editor at Management Science and MISQ • Ram Ramesh (SUNY Buffalo), area editor at INFORMS Journal on Computing. • Galit Shmueli (National Tsing Hua University), inaugural EiC at INFORMS Journal on Data Science. (Introduction to IJDS: https://drive.google.com/file/d/1QZ3HGgDSXOGcMpgPJY7WUCYcmvsO6Z2r/view)

10:00 AM	Break	Break

10:30 AM to 11:30 AM	**DS02 Panel Session on "Technology and Balance in the Time of COVID-19" (live)** https://cattendee.abstractsonline.com/meeting/9022/Session/3482 (Joint panel with CIST) Moderator: Ahmed Abbasi, Joe and Jane Giovanini Professor, University of Notre Dame. **Panelists:** • Ritu Agarwal - Distinguished University Professor, Interim Dean, and the Robert H. Smith Dean's Chair of Information Systems at the Robert H. Smith School of Business, University of Maryland, College Park. • Yael Grushka-Cockayne - Senior Associate Dean for Professional Degree Programs, and Altec Styslinger Foundation Bicentennial Chaired Professor, Darden School of Business, University of Virginia. • Vijay Mahajan - John P. Harbin Centennial Chair in Business, Professor of Marketing, University of Texas at Austin. • Jason Williamson - Vice President of Oracle for Startups and Oracle for Research, and Member of the Board of Visitors at North Carolina Central University's School of Business.

11:30 AM	**DS03 Recommender Systems** **https://cattendee.abstractsonline.com/meeting/9022/Session/3483**	**DS04 Statistical Learning Methods** **https://cattendee.abstractsonline.com/meeting/9022/Session/3484**
	Audience Come and Go: Learning Dynamic Representations to Recommend Live Streaming Rooms (**Best paper nominee**) Ge Gao, Hongyan Liu (Full presentation)	Designing Topic Models for Better Statistical Inference Xiaoping Liu, Xiaobai Li (Full presentation)
	Towards Measuring Algorithmic Interpretability John Lalor, Hong Guo (Short presentation)	Design and Analysis of Switchback Experiments Jinglong Zhao, Iavor Bojinov, David Simchi-Levi (Short presentation)
	Customizable Career Path Recommendation with Multi-Criteria Stochastic Optimization Pengzhan Guo, Zeyang Ye, Keli Xiao, Hengshu Zhu, Wei Zhu (Full presentation)	Information Theoretic Ising Graph Convolutional Networks for Multivariate Time Series Forecasting (**Best student paper nominee**) Joseph Dunbar, Olivia Sheng (Full presentation)
	Recommendation with Attribute-aware Product Networks: A Representation Learning Model Guannan Liu, Liang Zhang, Junjie Wu, Xiao Fang (Short presentation)	Joint Bottom-Up Method for Hierarchical Time-Series: Application to Australian Tourism Nicolo Bertani, Ville Satopaa, Shane Jensen (Short presentation)
	Longitudinal Impact of Preference Biases on Recommender Systems' Performance (**Best student paper nominee**) Gediminas Adomavicius, Jingjing Zhang, Meizi Zhou (Full presentation)	Maximum Feasibility Estimation Sungil Kim (Full presentation)
Approx. 12:40 PM	Zoom Session for Additional Q&A and Break https://zoom.us/j/98669493636?pwd=QWh6d09Ea3JBdFpoQ0xMNDlFV2ZTZz09	Zoom Session for Additional Q&A and Break https://zoom.us/j/97502052911?pwd=OXN6ck1zd3pDaTUyd2JDYVZBWlBpdz09

	DS05 Financial Prediction https://cattendee.abstractsonline.com/meeting/9022/Session/3485	DS06 Bias and the Blurring Human/AI Boundary https://cattendee.abstractsonline.com/meeting/9022/Session/3486
1:00 PM		
	Relation-based Screening of Targets in Venture Capital Investment: A Knowledge Graph Approach Ruiyun XU, Hailiang Chen, J Leon Zhao (Full presentation)	Can AI Innovate? An Interpretable Generative Model for Patents (**Best student paper nominee**) Zhaoqi Cheng, Dokyun Lee, Prasanna Tambe (Full presentation)
	Peek into the Future: Understanding Corporate Narrative Information Disclosure with Multi-task Learning Yu Zhu, Xiao Liu, Olivia Sheng (Short presentation)	Uncovering Latent Biases in Text: Method and Application to Peer Review Emaad Manzoor, Nihar Shah (Short presentation)
	Deep learning for financial distress prediction considering individual effect and complex system (**Best student paper nominee**) NohYoon Seong, Kihwan Nam, Byungtae Lee (Full presentation)	Better than Humans? AI challenge in Creative Tasks: Randomized Field Experiment on AI Recommender Systems Jooyoung Kim, NohYoon Seong, Kihwan Nam (Full presentation)
	Exploring Predictive Features from Text-based Information for Stock Movement during Corporate Events Ziqian Song, Patrick Fan, Edward A. Fox (Short presentation)	Biased Programmers? Or Biased Data? A Field Experiment in Operationalizing AI Ethics Bo Cowgill, Fabrizio DellAcqua, Samuel Deng, Daniel Hsu, Nakul Verma, Augustin Chaintreau (Short presentation)
	Predicting stock movements based on financial news with systematic group identification NohYoon Seong, Kihwan Nam, Byungtae Lee (Full presentation)	Augmented Fairness: An Interpretable Model Augmenting Decision-Makers' Fairness (**Best paper nominee**) Tong Wang, Maytal Saar-Tsechansky (Full presentation)
Approx. 2:10 PM	Zoom Session for Additional Q&A and Break https://zoom.us/j/98669493636?pwd=QWh6d09Ea3JBdFpoQ0xMNDlFV2ZTZz09	Zoom Session for Additional Q&A and Break https://zoom.us/j/97502052911?pwd=OXN6ck1zd3pDaTUyd2JDYVZBWlBpdz09

	DS07 Deep Learning Methods https://cattendee.abstractsonline.com/meeting/9022/Session/3487	DS08 Social Media and Crowdfunding https://cattendee.abstractsonline.com/meeting/9022/Session/3488
2:30 PM		
	Relaxed Multivariate Bernoulli Distribution and Its Applications to Deep Generative Models Xi Wang, Junming Yin (Full presentation)	Uncertainty Prediction for Crowdfunding Projects: A Multi-Label Attention based Text-CNN Approach Guohou Shan, Konstantin Bauman, Sunil Wattal (Full presentation)
	Learning Bayesian Nash Equilibria in Auction Games Stefan Heidekrueger, Paul Sutterer, Nils Kohring, Martin Bichler (Full presentation)	Learning from the Curve: Predicting Successful Projects using Functional PCA (**Best Paper Nominee**) Xinxue Qu, Zifeng Zhao (Full presentation)
	Personalized Training Set – A New Problem and Algorithm Tomer Geva, Inbal Yahav (Full presentation)	Bridging Classification and Visualization for Persuasion Detection on an Online Discussion Platform Derya Ipek Eroglu, Onur Seref, Michelle Seref (Short presentation)
		Driving User Engagement with Social Media Images Vamsi Kanuri, Christian Hughes (Short presentation)
	Adapting Deep Neural Networks with an Efficient Multiobjective Evolutionary Framework (**Best paper nominee**) Maria Baldeon Calisto, Susana Lai-Yuen (Full presentation)	Customer Engagement Prediction on Social Media: A Novel Graph Neural Network Method with Attention Mechanism Tengteng Ma, Yuheng Hu, Yingda Lu, Siddhartha Bhattacharyya (Full presentation)
Approx. 3:40 PM	Zoom Session for Additional Q&A and Break https://zoom.us/j/98669493636?pwd=QWh6d09Ea3JBdFpoQ0xMNDlFV2ZTZz09	Zoom Session for Additional Q&A and Break https://zoom.us/j/97502052911?pwd=OXN6ck1zd3pDaTUyd2JDYVZBWlBpdz09

	DS09 Data Science and Health https://cattendee.abstractsonline.com/meeting/9022/Session/3489	DS10 Data Science Applications https://cattendee.abstractsonline.com/meeting/9022/Session/3490
4:00 PM		
	Beating the Clock with MedCrawl: A Social Listening Platform for Health 2.0 Brent Kitchens, Ahmed Abbasi, Jennifer Claggett (Full presentation)	Data-driven Dynamic Pricing and Ordering with Perishable Inventory in a Changing Environment N. Bora Keskin, Yuexing Li, Jing-Sheng Song (Full presentation)
	A framework for optimizing COVID-19 testing policy using a Multi Armed Bandit approach Hagit Grushka - Cohen, Raphael Cohen, Bracha Shapira, Jacob Moran-Gilad, Lior Rokach (Full presentation)	Anchoring-Aware Matrix Factorization Konstantin Bauman, Tamilla Triantoro (Full presentation)
	Data-Driven Demand Management for Hospitals during Pandemics: Forecasting COVID-19 Admissions based on Population Mobility and Social Vulnerability Arindam Ray, Kimia Keshanian, Wolfgang Jank, Kaushik Dutta, Matthew Mullarkey (Short presentation)	Precision Coupon Targeting with Dynamic Customer Triage Chuanren Liu, Wenxiang Zhu (Full presentation)
	Talk More about Yourself: A Data-Driven Extended Theory of Reasoned Action for Online Health Communities Xi Wang, Xing Tong, Yushan Zhu, Zhiya Zuo (Short presentation)	
	Zoom Session for Additional Q&A and Break https://zoom.us/j/98669493636?pwd=QWh6d09Ea3JBdFpoQ0xMNDIFV2ZTZz09	Effects of Analytics Academic Programs on Local Analytics Job Markets Yuanyang Liu, Wei Zheng, Melissa Bowers (Short presentation)
Approx. 5:00 PM		Zoom Session for Additional Q&A and Break https://zoom.us/j/97502052911?pwd=OXN6ck1zd3pDaTUyd2JDYVZBWlBpdz09
	End of the workshop. **Award winners will be announced via emails.**	