

**INFORMS Workshop on Data Science 2017 Program (Tentative)**

<b>8:00 – 8:05 Opening Remark</b> <b>8:05 – 8:50 Keynote Speech</b>
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<b>9:00 – 10:30</b> <b>Session 1A (Data Science Methodology)</b> Session Chair: Gautam Pant	<b>9:00 – 10:30</b> <b>Session 1B (Customer Intelligence)</b> Session Chair: Inbal Yahav
Qihang Lin, Xi Wang, Kang Zhao  Reciprocal Recommendation in Online Dating by Binary Matrix Completion with Data-Dependent Regularization	Zhilei Qiao, Wenqi Shen, Alan Wang, Weiguo Fan  Leveraging External Consumer Experience: Exploitation, Exploration and Mobile App Product Performance
Abhijeet Ghoshal, Syam Menon, Sumit Sarkar  Hiding Sensitive Information Prior to Sharing Distributed Transactional Databases	Jingyuan Yang  Buyer Targeting Optimization: A Unified Customer Segmentation Perspective
Junming Yin, Yaoliang Yu  Convex-constrained Sparse Additive Modeling and Its Extensions	Jingjing Li, Kai Larsen, Ahmed Abbasi  Unlocking Our Behavioral Knowledge Inheritance Through Ontology Learning: A Design Framework, An Instantiation, And A Randomized Experiment
Galit Shmueli  A Tree-based Approach for Addressing Self-Selection in Impact Studies with Big Data	Alex Tuzhilin  Aspect Based Recommendations: Recommending Items with the Most Valuable Aspects Based on User Reviews
<b>10:30 – 10:45 Coffee Break</b>	
<b>10:45 – 12:15</b> <b>Session 2A (Healthcare Analytics and Applications)</b> Session Chair: Edward McFowland III	<b>10:45 – 12:15</b> <b>Session 2B (Business Data Science &amp; Application)</b> Session Chair: Wenjing (Wendy) Duan
Sriram Somanchi, Idris Adjerid, Ralph Gross  To Predict or Not to Predict: The Case of Inpatient Admissions to the Emergency Department	Wenjing Duan, Yang Yu, Ezekiel Leo  Measuring Business Relatedness for Big Data Strategic Analysis: A Deep Learning Approach
Long Xia, Xuan Zhang, Brandon Fan, Weiguo Fan  Healthcare Fraud Detection at Physician Level Using Open Data	Jingyuan Yang  Multi-focal Lead Scoring for Predictive Modeling in B2B Market
Mohammad Morid, Olivia Sheng, Samir Abdelrahman  Leveraging Similarity and Change Points for Patient Time Series Classification: The Case of Early ICU Mortality Prediction	Bowen Du, Shuo Lei, Wenjun Zhou, Chen Yang, Hui Xiong  Carsharing Rental Business Site Selection Leveraging Multi-Source Data
Sriram Somanchi, Edward McFowland III, Daniel B. Neill  Detecting Anomalous Patterns of Care using Health Insurance Claims	Shaobo Li, Shaonan Tian, Yan Yu  Corporate Bankruptcy Prediction: A Penalized Semiparametric Index Hazard Model Approach

**12:20 – 13:20 Lunch/ Poster Slam Session**  
**13:30 – 14:30 Deans Panel on Data Science**

**14:30 – 14:45 Coffee Break**

<b>14:45 – 16:15</b> <b>Session 3A (Network Data Science)</b> Session Chair: Tomer Geva	<b>14:45 – 16:40</b> <b>Session 3B (Business Data Science &amp; Application)</b> Session Chair: John Zhang
Zhepeng Li, Yong Ge, Bai Xue	Yuanyang Liu, Gautam Pant, Olivia Sheng
Forecasting Contagious Social Foci in Two-mode Social Networks	Predicting Human Capital Flow With Inter-firm Network
Xiao Han, Leye Wang, Weiguo Fan	Yu-Kai Lin, Xiao Fang
Utility-based Group Recommendation considering Social Influence	First, Do No Harm: Predictive Analytics for Risks of In-Hospital Adverse Events
Tomer Geva, Inbal Yahav	Xuan Wei, Daniel Zeng, Junming Yin
Data-Driven Network Tie Selection for Node-Level Prediction	From Multi-Class to Multi-Label: A Bayesian Approach to Annotation Aggregation in Crowdsourcing
Cosma Shalizi, Edward McFowland III	Kristina Bigsby, Jeffrey Ohlmann, Kang Zhao
Controlling for Latent Homophily in Social Networks through Inferring Latent Locations	The Turf is Always Greener: Predicting Decommitments in College Football Recruiting Using Social Network Data
	David Dobolyi, Ahmed Abbasi, Fatemeh Zahedi, Anthony Vance  The Phishing Funnel Model for Predicting User Susceptibility to Phishing Websites

**16:50 – 17:50 Panel: Publishing Data Science Papers in IS journals: Challenges and Editorial Advice**

**18:00 Reception**