

The 2020 INFORMS Workshop on Data Science

Hosted by The INFORMS College on Artificial Intelligence

Updated July 8th, 2020: Due to the ongoing COVID-19 pandemic, this year's workshop will be held **ONLINE**. More information will be posted on <http://2020.dsworkshop.org/> once available.

The INFORMS Workshop on Data Science is a premier research conference dedicated to developing data science theories, methods, and algorithms to solve challenging problems and benefit business and society at large. The workshop invites innovative data science research contributions that address business and societal challenges from the lens of statistical learning, data mining, machine learning, and artificial intelligence. The workshop welcomes original research addressing challenges in marketing, finance, and supply chain applications and problems in healthcare, energy, cybersecurity, social network services, privacy, credibility, etc. Contributions on novel methods may be motivated by insightful observations on the limitations of existing data science methods to address practical challenges, or by studying entirely novel data science problems. Research contributions on theoretical and methodological foundations of data science, such as optimization for machine learning and new algorithms for data mining, are also welcomed.

Research Contributions May Include:

- Models for data science and predictive analytics
- Performance measures in data science with important practical implications
- Computational methods for big data, text mining, and natural language processing
- Innovative methods for social network analytics
- Data acquisition, cleaning, integration, and best practices
- Data-driven methods for cybersecurity and data privacy problems
- Prediction of rare events, anomaly detection, and fraud detection
- Methods for induction and inference with missing values
- Data-driven methods for effective risk management
- Data science for healthcare: chronic disease management, preventative care, etc.
- Data science for industrial applications: energy, education, finance, supply chain, e-commerce, etc.
- Large-scale recommendation systems and social media systems
- Visual analytics for business data
- Mobile analytics
- Experiences with big data project deployments
- Deep learning and business applications of AI

Important Dates:

Paper submission Open: May 4, 2020

Paper submission Deadline: ~~July 13, 2020~~ extended to **July 31, 2020**

Notification of Acceptance: ~~August 24, 2020~~ extended to **September 14, 2020** (tentative)

We look forward to receiving your paper submissions, and to seeing you at the conference!

Information for Authors:

- Maximum of 10 pages including tables and figures. References do not count towards the page limit. Use single-spaced text with 12-point font and one-inch margins on four sides, printable on 8.5 x 11-inch paper.
- Blind submissions
- **INFORMS Workshop on Data Science or INFORMS do not take ownership of paper copyrights.**

Best Paper Awards:

The INFORMS College on Artificial Intelligence who hosts the Workshop on Data Science will be sponsoring the best paper and the best student paper awards. To be considered for the best student paper award, please confirm in the submission portal that a student is the main contributor when submitting your paper.

Organizing Committee:

Honorary Chairs

Olivia Sheng, University of Utah
Alexander S. Tuzhilin, New York University

Conference Chairs

Ahmed Abbasi, University of Virginia, ana6e@comm.virginia.edu
Yael Grushka-Cockayne, Harvard University, ygrushkacockayne@hbs.edu
Kang Zhao, University of Iowa, kang-zhao@uiowa.edu

Program Chairs

Brent Kitchens, University of Virginia, bm2a@comm.virginia.edu
Sriram Somanchi, University of Notre Dame, somanchi.1@nd.edu
Wenjun Zhou, University of Tennessee, wzhou4@utk.edu

Publicity Chairs

Tomer Geva, Tel Aviv University
Shawn Mankad, Cornell University
Dirk Neumann, University of Freiburg
Paul Pavlou, University of Houston
Junjie Wu, Beihang University

Finance Chair

Alan Wang, Virginia Tech

Local Arrangement Chair

Jingyuan Yang, George Mason University