# The 2019 INFORMS Workshop on Data Science

Hosted by The INFORMS College on Artificial Intelligence

Seattle, WA, USA October 19, 2019 http://2019.dsconf.cc/

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, ecommerce, 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: <u>April 22, 2019</u> Paper submission Deadline: <u>July 7, 2019</u> Notification of Acceptance: August 12, 2019

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

#### **Information for Authors:**

- Maximum of 10 single-spaced pages, printable on 8.5 x 11-inch paper
- 12-point font with one-inch margins on four sides
- Blind submissions
- INFORMS Workshop on Data Science or INFORMS do not take ownership of paper copyrights.

# **Organizing Committee:**

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