Dear friends,

Welcome to the INFORMS Annual Meeting conference in Seattle! The Convention Center and Sheraton Hotel in the heart of downtown Seattle offer an excellent layout for this conference. They are located in a vibrant area near many restaurants and shops, not far from landmarks such as the Space Needle and the Pike Place Market.

We have organized the conference around the broad themes of theory and practice of OR/MS, data science, analytics, artificial intelligence, and machine learning, within the context of applications such as education, energy, healthcare, humanitarian logistics, manufacturing, revenue management, supply chain management, sustainability, and transportation.

We have invited three well-known visionaries as plenary speakers: the Sunday opening plenary will be delivered by Dr. Gary S. Kaplan, Chairman and CEO of the Virginia Mason Health System in Seattle; Professor Robert Vanderbei of Princeton University will present the OMEGA RHO Distinguished Lecture on Monday; and Dr. Russell Allgor, Chief Scientist at Amazon, will round out the list with a Tuesday plenary.

The organizing committee has also put together an impressive list of academic scholars and industry experts as keynote speakers. They include Dr. Bar Ifrach, who heads the Marketplace team at Uber Freight; Professor Russell Tedrake, who directs the Center for Robotics at the Computer Science and Artificial Intelligence Lab at MIT; Professor Kamalini Ramdas from the London Business School; Professor Linda Green from Columbia Business School; Professor Susan Athey from Stanford Business School; Professor Karen Wilcox, Director of the Oden Institute for Computational Engineering and Sciences at the University of Texas at Austin; Dr. Eric Horvitz, Technical Fellow and Director of Microsoft Research; Ramayya Krishnan, INFORMS 2019 President, Heinz College of Information Systems and Public Policy, Carnegie Mellon University; Pascal Van Hentenryck, SYE, Georgia Tech University; Dr. Nicole Stein-Moses, who co-directs Facebook Core AI; Data Science Professor Andy Philpott from the University of Auckland will deliver the IFORS Distinguished Lecture keynoter. The UPS Smith Prize and the Edelman Award reprises, and the Wagner Prize winner also promise to offer excellent keynotes, as always.

Please partake in networking opportunities at the Welcome Reception, General Reception, Career Center, and Exhibit Hall. The General Reception on Tuesday will be held conveniently right at the Convention Center.

I also encourage you to participate in the INFORMS Pro Bono Analytics program. They have partnered with a Seattle-based non-profit called FareStart. Their micro-volunteering project at the conference will provide opportunities to build hygiene kits and make blankets for the homeless. The Boeing Future of Flight tour is another post-conference option.

I want to take this opportunity to thank all INFORMS staff for their unwavering support. The conference would not be possible without them. We also appreciate guidance and help from INFORMS leadership and the Meetings Committee. A big thank you to volunteers from various INFORMS communities, sections, and societies for organizing clusters and sessions that define the core of the conference.

A heartfelt note of appreciation for the 2019 organizing committee for their hard work over one whole year: Program Chair Professor Ted Klastorin of the University of Washington; Plenary and Keynote Chair Professor John Birge of the University of Chicago; TutORials Chair Professor Serguei Netessine of The University of Pennsylvania; Emerging Topics Sessions Chair Professor Smita Kajjyawat of Northwestern University; Sponsored Sessions Chair Professor Supya Pathak of the University of Washington Bothell; Contributed Sessions Chairs Professor John Gunnar Carlson of the University of Southern California and Professor Harsh Krishnan of the University of British Columbia; Poster (Interactive) Sessions Chair Professor Shan Liu and Professor Michael Wagner, both from the University of Washington; Practice Curated Program Chairs Dr. Shervin Bier from Boeing and Dr. Anubhav Srivastava from Amazon; and Arrangements Chair Professor Zeljko Zabinsky from the University of Washington.

Last, but certainly not least, the INFORMS community is grateful for the generous support we have received from all conference sponsors.

Enjoy the conference!

Archis Ghate, General Chair
University of Washington, Seattle
INFORMS CENTER
CC - Exhibit Hall 4AB, Level 4
This dynamic space is the hub for your 2019 INFORMS Annual Meeting activities. Members who renew on-site will receive an INFORMS t-shirt.

Pro Bono Analytics (PBA) Micro-Volunteering
INFORMS PBA has partnered with FareStart, a nonprofit providing food and employment to those less fortunate, for a micro-volunteering initiative. Our effort to build hygiene kits and make "no-sew" blankets to help the homeless in Seattle is made possible by the financial support of our members, sponsors and exhibitors, and conference community.

In the INFORMS spirit of "solving problems," we invite all Annual Meeting attendees to visit the INFORMS Center and volunteer a few minutes of their time to build a kit or make a blanket and learn more about how PBA is making an impact in underserved communities through analytics.

How to enter: Each poster presenter will be given three Golden Tickets and will be asked to hand them out (one per person) during the poster session to any attendee that engages with the presenter. The Golden Ticket must then be completed by 2:30pm and turned in to the Poster Session Check-in counter located at the entrance of the poster sessions.

INFORMS CAREER FAIR & SPECIAL EVENTS
The INFORMS Career Fair allows job seekers to meet the employers in an informal atmosphere and discuss employment opportunities. Employers will collect resumes at the beginning of the Annual Meeting to set up interviews throughout the four days.

Career Fair Breakfast & Panel Discussion (Invite Only)
Sunday, October 20 1 7:30–9am
S - Metropolitan B, 3rd Floor
INFORMS Career Services Committee is hosting a networking breakfast and panel discussion prior to the Sunday Career Fair. This is a great opportunity to interact with employers and other candidates while gathering insights on job search processes.

INFORMS Career Fair: Networking Meet & Greet
Monday, October 21 1 9:30–10am & 4–4:30pm
Relax, play games, and meet other members.

INFORMS Career Fair: On-Site Resume Review
Sunday, October 20 1 12noon–5pm
CC - Exhibit Hall 4AB, Level 4
Make vital connections in an engaging atmosphere. Set-up interviews with employers and have your resume checked by professionals.

INFORMS Career Fair: On-Site Interviews
Monday & Tuesday, October 21–22 1 8am–5pm
Wednesday, October 23 1 8am–1pm
CC - Exhibit Hall 4AB, Level 4
Must have a previously scheduled appointment.

Job Search Panel Discussion
S - Grand Ballroom C, 2nd Floor
Select panels will lead informal discussions about the industry and academic interview process.
• Industry Job Search Panel (MB94)
  Monday, October 21 1 11am–12:30pm
• Academic Job Search Panel (MC94)
  Monday, October 21 1 1:30–3pm

In the INFORMS spirit of "solving problems," we invite all Annual Meeting attendees to visit the INFORMS Center and volunteer a few minutes of their time to build a kit or make a blanket and learn more about how PBA is making an impact in underserved communities through analytics.

Diversity, Equity & Inclusion Committee Meet & Greet
Monday, October 21 1 9:30–10am & 4–4:30pm

NETWORKING LOUNGE & TECHNOLOGY CENTER
CC - Exhibit Hall 4AB, Level 4, Booth 4
Relax, play games, and meet other members.

PROFESSIONAL HEADSHOTS
CC - Exhibit Hall 4AB, Level 4
Need a professional headshot? Stop by booth 4, to get your professional headshot taken at no charge.

POSTER SESSIONS & E-POSTERS COMPETITION
Monday & Tuesday, October 21–22
12:30–2:30pm 1 CC - Exhibit Hall 4AB, Level 4
Researchers, practitioners, and students share their operations research and analytics projects in these special sessions presented as poster displays or laptop demonstrations. All poster competition semi-finalists will present an electronic version of their final poster to be digitally displayed during the sessions.

Win a Golden Ticket
Keep the excitement going by winning a swag bag of goodies! Five swag bags will be given away on both Monday and Tuesday. The random drawing will be held after the conclusion of the poster session at 2:30pm.

How to enter: Each poster presenter will be given three Golden Tickets and will be asked to hand them out (one per person) during the poster session to any attendee that engages with the presenter. The Golden Ticket must then be completed by 2:30pm and turned in to the Poster Session Check-in counter located at the entrance of the poster sessions.

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Our editor speed review sessions provide an opportunity for you to get tips and advice on publishing your paper. Visit the Elsevier booth #35 to book your 15 minute slot within the time periods displayed above or email Parveen Dhillon: p.dhillon@elsevier.com

Spaces are available on a first come first served basis!
FRIDAY, OCTOBER 18

INFORMS Registration Satellite Counter  
S - Spruce, 2nd Floor  5–8pm

SATURDAY, OCTOBER 19

INFORMS Registration  
CC - Atrium, Level 4  7am–5pm

INFORMS Registration Satellite Counter  
S - Spruce, 2nd Floor  7am–8pm

ISR  
Senior Editors Meeting (Invite Only)  
S - Diamond, 1st Floor  8am–12noon

INFORMS Registration Satellite Counter  
S - Jefferson, 4th Floor  8am–3pm

Childcare - Camp INFORMS (Must be Pre-Registered)  
S - Ballard, 3rd Floor  8am–3pm

Executive Committee Meeting  
S - Eagle, 1st Floor  10am–12noon

INFORMS Board Meeting  
S - Metropolitan A, 3rd Floor  1–5pm

Technology Workshops  
CC - Various Rooms, Level 3  1–6:30pm

Student Appreciation Event (Invite Only)  
S - Grand Ballroom C, 2nd Floor  6–7:30pm

Roundtable Reception (Invite Only)  
S - Columbia, 4th Floor  6–8pm

SUNDAY, OCTOBER 20

New Member Welcome Breakfast (Invite Only)  
S - Grand Ballroom D, 2nd Floor  7–8am

INFORMS Registration  
CC - Atrium, Level 4  7am–5pm

Roundtable Meeting (Invite Only)  
S - Cedar, 2nd Floor  7am–5pm

Mother’s Lounge  
S - Cedar, 2nd Floor  7am–5pm

INFORMS Registration Satellite Counter  
S - Spruce, 2nd Floor  7am–8pm

INFORMS Registration Satellite Counter  
S - Jefferson, 4th Floor  8am–3pm

Childcare - Camp INFORMS (Must be Pre-Registered)  
S - Ballard, 3rd Floor  8am–3pm

Executive Committee Meeting  
S - Eagle, 1st Floor  10am–12noon

INFORMS Board Meeting  
S - Metropolitan A, 3rd Floor  1–5pm

Technology Workshops  
CC - Various Rooms, Level 3  1–6:30pm

Student Appreciation Event (Invite Only)  
S - Grand Ballroom C, 2nd Floor  6–7:30pm

Roundtable Reception (Invite Only)  
S - Columbia, 4th Floor  6–8pm

SUNDAY, OCTOBER 20 (Continued)

IFORS/ITOR Editorial Board Meeting (Invite Only)  
S - Cedar, 2nd Floor  12:30–2pm

M&SOM Associate Editors Lunch/Meeting (Invite Only)  
S - Grand Ballroom D, 2nd Floor  12:30–2:30pm

Technical Sessions (SC)  
TutRial  
CC - 6A, Level 6  1:30–4pm

Keynote: Russel Tedrake  
CC - 6A, Level 6  1:30–4pm

Keynote: Bar Ifach  
CC - 6B, Level 6  1:30–4pm

Keynote: UPS Smith Prize  
CC - Exhibit Hall 4AB, Level 4  4–4:30pm

Technical Sessions (SD)  
TutRial  
CC - 6A, Level 6  4:30–6pm

INFORMS Community Meetings  
See Page 17

Career Fair Employer Reception  
S - Cirrus, 35th Floor, Pike St. Tower  5:30–6:30pm

Welcome Reception – Exhibits Open  
CC - Exhibit Hall 4AB, Level 4  7:30–9pm

INFORMS Awards Ceremony & Dessert Reception  
CC - 6E, Level 6  8:30–9:45pm

MONDAY, OCTOBER 21

ACB Meeting  
S - Juniper, 2nd Floor  7–9am

INFORMS Registration Satellite Counter  
S - Spruce, 2nd Floor  7am–12noon

Baggage Check  
CC - Atrium, Level 4  7am–6:30pm

INFORMS Registration  
CC - Atrium, Level 4  7am–5pm

Mother’s Lounge  
CC - Atrium, Level 4  7am–6pm

Management Science IS Dept. Meeting (Invite Only)  
S - Cedar, 2nd Floor  7:15–9am

Childcare - Camp INFORMS (Must be Pre-Registered)  
S - Ballard, 3rd Floor  7:30am–6:15pm

ACORD Breakfast/Business Meeting  
S - Madrona, 2nd Floor  7:30–9am

Service Science Editorial Board Meeting (Invite Only)  
S - Cirrus, 35th Floor, Pike St. Tower  7:30–9am

University Analytics Program Directors Meeting  
S - Diamond, 1st Floor  8–9am

PSOR Breakfast/Business Meeting  
S - Aspen, 2nd Floor  8–9:30am

Technical Sessions (MA)  
TutRial  
CC - 6A, Level 6  8–9:30am

DECA Editorial Board Meeting (Invite Only)  
S - Juniper, 2nd Floor  9–11am

Chapters/Fora Committee Meeting  
S - Eagle, 1st Floor  9–11am

INFORMS Career Center, Exhibits, Networking Lounge  
S - Redwood, 2nd Floor  9–11am

Professional Development Committee Meeting  
S - Redwood, 2nd Floor  9–11am

Coffee Break  
S - Redwood, 2nd Floor  9–11am

INFORMS Career Center, Exhibits, Networking Lounge  
S - Redwood, 2nd Floor  9–11am

Technical Sessions (MB)  
TutRial  
CC - 6E, Level 6  10–10:50am

Plenary: Robert Vanderbei  
CC - 6E, Level 6  10–10:50am

Sections/Societies Committee Meeting  
S - Redwood, 2nd Floor  10–11am

Education Strategy Committee Meeting  
S - Juniper, 2nd Floor  10–11am

Technical Sessions (MB)  
TutRial  
CC - 6E, Level 6  11am–12:30pm

Flash Session  
CC - 3A, Level 3  11am–12:30pm
MONDAY, OCTOBER 21 (Continued)

INFORMS Annual Meeting

Community Officers Appreciation Luncheon (Invite Only)  
S - Redwood, 2nd Floor  12noon–1:30pm

UOCE Editorial Board Meeting (Invite Only)  
S - Cedar, 2nd Floor  12noon–1:30pm

Lunch Break (On Your Own)  
12:30–1:30pm

Bonder Scholarship Lunch  
Off-Site  12:30–1:30pm

Coin-OR Members & Users  
CC - 613, Level 6  12:30–1:30pm

IJOO Editorial Board Meeting (Invite Only)  
S - Metropolitan A, 3rd Floor  12:30–1:30pm

Fellows Luncheon (Invite Only)  
S - Grand Ballroom A, 2nd Floor  12:30–1:30pm

Poster/Competition Session  
CC - Exhibit Hall 4AB, Level 4  12:30–2:30pm

Technical Sessions (MC)  
CC & S - Various Rooms  1:30–3pm

TutORial  
CC - 6A, Level 6  1:30–3pm

Subdivision Council Meeting  
S - Juniper, 2nd Floor  2–3pm

Keynote: Andy Philpott  
CC - 6A, Level 6  3:10–4pm

Keynote: Linda Green  
CC - 6B, Level 6  3:10–4pm

Keynote: Kamalini Ramdas  
CC - 6C, Level 6  3:10–4pm

Keynote: Ramaya Krishnan & Pascal Van Hentenryck  
CC - 6E, Level 6  3:10–4pm

Coffee Break  
CC - Exhibit Hall 4AB, Level 4  4–4:30pm

Technical Sessions (MD)  
CC & S - Various Rooms  4:30–6:30pm

TutORial  
CC - 6A, Level 6  4:30–6pm

Committee on Teaching & Learning  
S - Cedar, 2nd Floor  6–7:15pm

IJAA Editorial Board Meeting (Invite Only)  
S - Juniper, 2nd Floor  6–7:15pm

Student Awards Ceremony & Reception  
S - Metropolitan, 3rd Floor  7:30–9:30pm

TUESDAY, OCTOBER 22

INFORMS Annual Meeting

Technical Sessions (TC)  
CC & S - Various Rooms  12:05–1:35pm

TutORial  
CC - 6A, Level 6  12:05–1:35pm

Flash Session  
S - Metropolitan A, 3rd Floor  12:05–1:35pm

UOCE Editorial Board Meeting (Invite Only)  
S - Diamond, 1st Floor  12:30–2:30pm

Poster/Competition Session  
CC - Exhibit Hall 4AB, Level 4  12:30–2:30pm

Service Science Consortium  
S - Grand Ballroom A, 2nd Floor  1–2:30pm

Coffee Break  
CC - Exhibit Hall 4AB, Level 4  1:30–2pm

Technical Sessions (TD)  
CC & S - Various Rooms  2–3:30pm

TutORial  
CC - 6A, Level 6  2–3:30pm

Flash Session  
S - Metropolitan A, 3rd Floor  2–3:30pm

Keynote: Wagner Prize Winner  
CC - 6A, Level 6  3:40–4:30pm

Keynote: Edelman Reprise  
CC - 6B, Level 6  3:40–4:30pm

Keynote: Karen Willcox  
CC - 6C, Level 6  3:40–4:30pm

Keynote: Susan Athey  
CC - 6E, Level 6  3:40–4:30pm

Technical Sessions (TE)  
CC & S - Various Rooms  4:35–6:05pm

Flash Session  
S - Grand Ballroom A, 2nd Floor  4:35–6:05pm

INFORMS Member Meeting  
S - Grand Ballroom A, 2nd Floor  6:15–7:15pm

INFORMS Community Meetings  
See Page 17

General Reception  
CC - 4E, Level 4  7:30–10pm

WEDNESDAY, OCTOBER 23

INFORMS Annual Meeting

Technical Sessions (WA)  
CC & S - Various Rooms  8–9:30am

Flash Session  
S - Metropolitan A, 3rd Floor  8–9:30am

Career Center  
CC - Exhibit Hall 4AB, Level 4  8am–1pm

INFORMS Career Center  
CC - Exhibit Hall 4AB, Level 4  8am–1pm

INFORMS Center, Exhibits, Networking Lounge  
CC - Exhibit Hall 4AB, Level 4  9–12:30pm

Keynote: Nicolas Stier-Moses  
CC - 6B, Level 6  10–10:50am

Keynote: Eric Horvitz  
CC - 6C, Level 6  10–10:50am

Coffee Break  
CC - Exhibit Hall 4AB, Level 4  10:30–11am

Technical Sessions (WB)  
CC & S - Various Rooms  11am–12:30pm

Flash Session  
S - Metropolitan A, 3rd Floor  11am–12:30pm

Lunch Break (On Your Own)  
12:30–1:30pm

Technical Sessions (WC)  
CC & S - Various Rooms  3:20–4:50pm

Flash Session  
S - Metropolitan A, 3rd Floor  3:20–4:50pm

Check the INFORMS Annual Meeting website or mobile app for the most up-to-date schedule information.
SATURDAY, OCTOBER 19

Student Appreciation Event (Invite Only)
5–9pm  I  S - Cirrus, 35th Floor, Pike St. Tower
This event provides students who RSVP’d a chance to network with other students and participate in speed mentoring sessions to gain feedback about career-related concerns. The evening continues with a mixer (games, food, drinks) with music by FluxVJ, Seattle’s Music Video DJ. Doors will open for Speed mentoring guests to check-in at 4:45pm. Mixer guests check-in begins at 6:30pm. Dinner is first come, first served. Limited non-RSVP access may be provided on site at the check-in table.

Sponsored by the INFORMS Membership and Communities Department.

RECEPTIONS & SOCIAL EVENTS
CC - Washington State Convention Center  |  S - Sheraton Grand Seattle Hotel

MONDAY, OCTOBER 21

ACORD Meeting (Invite Only)
7:30–9am  I  S - Madrona, 2nd Floor
This meeting gives ACORD members the opportunity to discuss effective practices and exchange ideas. No tickets will be sold at the door. The winners of the 2019 JFIG Paper Competition will be presented with awards. All junior faculty are invited to participate. This event gives junior faculty in engineering and business schools the opportunity to discuss career development and exchange ideas.

Sponsored by the INFORMS Board of Directors.

INFORMS Fellows Luncheon
12:30–1:30pm  I  S - Metropolitan, 3rd Floor
This luncheon honors INFORMS Fellows, examples of outstanding lifetime achievement in operations research and the management sciences. These individuals have demonstrated exceptional accomplishments and made significant contributions to the advancement of operations research and management sciences over a period of time. Their service to the profession and to INFORMS has culminated in election to the 2019 INFORMS Fellows Award.

Sponsored by the INFORMS Board of Directors.
INFORMS Annual Meeting
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INFORMS Annual Meeting

TUESDAY, OCTOBER 22

Women in OR/MS Forum Luncheon (Ticketed Event)
12noon–1pm | S - Cirrus Ballroom, 35th Floor, Pike St. Tower
A limited number of tickets may be available on site. Go to INFORMS Registration for information on availability. All those interested in issues related to women professionals in operations research and management sciences are invited to join us.

INFORMS Member Meeting
6:15–7:15pm | S - Grand Ballroom A, 2nd Floor
Come network and celebrate the accomplishments and future directions for INFORMS. Outstanding volunteers will be honored. The outgoing 2019 Board of Directors will be recognized along with the 2020 Board of Directors. The traditional Gavel of Exchange will occur from the President to the President-Elect. Light appetizers will be served along with beer, wine, and soft drinks.

General Reception
7:30–10pm | CC - 4E, Level 4
(Wear your conference badge for admission.)
Join us as we serve up a Northwest inspired menu, with salmon of course! Come and compete with your colleagues in a game on the giant foosball table or shoot the most basketball hoops and get your name on the top 10 list. You can also immerse yourself in the digital world with virtual reality pods.

This reception provides the perfect atmosphere for fellowship and networking while also having a bit of fun after a long day of sessions.

ESPECIALLY FOR STUDENTS & FIRST-TIME ATTENDEES

Coffee with a Member
This wonderful program connects INFORMS students and first-time attendees with some of INFORMS most enthusiastic members for 15-minute impromptu meetings and some sage INFORMS advice. We know the Annual Meeting can be a bit overwhelming and hope these casual meetings will make students and first-time attendees more comfortable, knowledgeable, and enthusiastic about both the meeting and INFORMS.

Check the INFORMS Annual Meeting website or mobile app for the most up-to-date schedule information and sponsorship listing.

RECEPTIONS & SOCIAL EVENTS
CC - Washington State Convention Center | S - Sheraton Grand Seattle Hotel

INFORMS JOURNAL ON OPTIMIZATION
GET TO KNOW INFORMS’ NEWEST JOURNAL

Explore the following new areas: data-driven optimization; optimization methods in machine learning; and exciting real-world applications of optimization. In addition, the journal publishes papers in the more traditional areas of optimization. The Editor’s vision for the journal, and the field of optimization, defines the field of analytics as the science that starts with data and builds models to derive optimal decisions that add value.

Editor-in-Chief: Dimitris Bertsimas, MIT

Frequency: Quarterly
ISSN: 2575-1484 (Print)
ISSN: 2575-1492 (Online)

For more information, please visit:
pubsonline.informs.org/journal/ijoo
## PRE-MEETING & TECHNOLOGY WORKSHOPS

**CC - Washington State Convention Center | S - Sheraton Grand Seattle Hotel**

### FRIDAY, OCTOBER 18
- **Combined Colloquia (Paid Event)**
  - Reception: S - Cirrus, 35th Floor, Pike St. Tower 7-9pm

### SATURDAY, OCTOBER 19
- **CIST (Paid Event)**
  - Breakfast, Sessions, Panel, & Keynote: S - Various Locations, 2nd Floor 7:15am–6:05pm
- **Combined Colloquia (Paid Event)**
  - Breakfast: S - Metropolitan B, 3rd Floor 7-8am
  - New Faculty Colloquium: S - Issaquah, 3rd Floor 8am–5pm
  - Doctoral Student Colloquium: S - Ravenna, 3rd Floor 8am–5pm
  - Teaching Effectiveness Colloquium: S - Greenwood, 3rd Floor 8am–5pm
  - Lunch: S - Metropolitan B, 3rd Floor 11:45am–1pm
  - Reception: S - Metropolitan B, 3rd Floor 5-6pm

- **Data Mining & Decision Analytics Workshop (Paid Event)**
  - Workshop, Sessions, Panel, & Keynote: S - Various Locations, 2nd Floor 7am–6pm

- **Data Science Workshop (Paid Event)**
  - Workshop, Sessions, Panel, & Keynote: S - Various Locations, 2nd Floor 7am–6pm

- **Technology Workshops (Open to All Attendees)**
  - GameLab: CC - 309, Level 3 1-3:30pm
  - GAMS: CC - 307, Level 3 1-3:30pm
  - IBM: CC - 310, Level 3 1-3:30pm
  - JMP, a Division of SAS: CC - 303, Level 3 1-3:30pm
  - MathWorks: CC - 304, Level 3 1-3:30pm
  - Optimization Direct: CC - 302, Level 3 1-3:30pm
  - Palisade: CC - 308, Level 3 1-3:30pm
  - ProCopia: CC - 3A, Level 3 1-3:30pm
  - Provalis Research: CC - 305, Level 3 1-3:30pm
  - SAS: CC - 306, Level 3 1-3:30pm
  - Tableau: CC - 3A, Level 3 1-3:30pm
  - DecisionBrain: CC - 3A, Level 3 4-6:30pm
  - FICO® Xpress: CC - 304, Level 3 4-6:30pm
  - Frontline Solvers: CC - 302, Level 3 4-6:30pm
  - Gurobi Optimization: CC - 305, Level 3 4-6:30pm
  - LINDO Systems, Inc: CC - 306, Level 3 4-6:30pm
  - LItc Software: CC - 309, Level 3 4-6:30pm
  - Optimization Firm: CC - 303, Level 3 4-6:30pm
  - Responsive Learning Technologies: CC - 308, Level 3 4-6:30pm
  - Simulation & Scheduling Software: CC - 307, Level 3 4-6:30pm
  - The AnyLogic Company: CC - 310, Level 3 4-6:30pm

### SUNDAY, OCTOBER 20
- **CIST (Paid Event)**
  - Breakfast, Sessions, Panel, & Awards: S - Various Locations, 2nd Floor 7:15am–5:30pm
All Technology Tutorials are located in the CC - Chelan 1, Level 2

TECHNOLOGY TUTORIALS (Hosted by Exhibitors)

SUNDAY, OCTOBER 20

Automation Anywhere I 8-8:45am
Increasing Operational Efficiency with Automation Anywhere’s Digital Workforce Platform

Processim Labs I 8:45–9:30am
Learning Reimagined: How to Increase Student Engagement through Introducing Innovation into the Classroom

The AnyLogic Company I 11–11:45am
Simulation Models as Virtual Environments to Train and Test AI for Business Applications

Palisade Corporation I 11:45am–12:30pm
Quantitative Risk Analysis in Excel with @RISK

Optimization Direct I 1:30–2:15pm
A DOCPlex and ODHCICPLEX Python Primer

MyEducator I 2:15–3pm
This is the Future of Education!

Licit Software I 4:30–5:15pm
LITIC, the Next Generation Decision Analytics Platform

The Optimization Firm I 5:15–6pm
ALAMO for Data Analytics and Machine Learning

MONDAY, OCTOBER 21

Artelys Corp. I 8–8:45am
Nonlinear Optimization Using Artelys Knitro with Julia/JuMP

GAMS I 8:45–9:30am
Deploying Models with GAMS MIRO

JMP, a Division of SAS I 11–11:45am
For the Love of Crocs: Text Mining Product Reviews with JMP Pro

AIMMS I 11:45am–12:30pm
Accelerating Optimization Model Development

LINDO Systems, Inc. I 1:30–2:15pm
Optimization Modeling Tools from LINDO Systems

Gurobi Optimization I 2:15–3pm
Improvements in the Gurobi Python Interface

FICO® Xpresso I 4:30–5:15pm
End-to-End FICO® Xpressto Insight Tutorial: From Data to Decisions for Non-Technical Business Users

MathWorks I 5:15–6pm
Building Optimization Applications with MATLAB

TUESDAY, OCTOBER 22

Automation Anywhere I 7:30–8:15am
Increasing Operational Efficiency with Automation Anywhere’s Digital Workforce Platform

Stukent I 8:15–9am
16 Tips for Teaching a Marketing Analytics Course

SAS I 10:30–11:15am
Building and Solving Optimization Models with SAS

Frontline Solvers, Inc. I 11:15am–12noon
Using Analytic Solver® Cloud for Teaching

T-Mobile I 12:05–12:50pm
From Theory to Practice: Applying O.R. to Change Wireless for the Better

Simio Simulation & Scheduling Software 12:50–1:35pm
Simulation and Scheduling Software All in One!

AMPL I 2–2:45pm
Model-Based Optimization with AMPL: New Connections to Analytics Tools and Environments

Provalis Research I 2:45–3:30pm
An Insider’s Look at Text Analytics: What Works, and What They Don’t Tell You

Responsive Learning Technologies I 4:35–5:20pm
Online Games to Teach Operations & Supply Chain Management

GoldSim I 5:20–6:05pm
A Probabilistic Simulation Platform for Dynamically Modeling Complex Systems

WEDNESDAY, OCTOBER 23

IBM I 8–9:45am
A Closer Look: Launching your Optimization Application in Minutes

DecisionBrain I 8:45–9:30am
Build and Deploy Optimization Decisions on Distributed Resources in the Cloud

MemComputing, Inc. I 11–11:45am
MemComputing’s MemCPU™ SaaS Application Tutorial

ProCogia I 11:45am–12:30pm
Accelerate your Business Insights with Azure and PowerBI

GameLab I 1:30–2:15pm
SodaPop Game: Operations Management Simulation

TutORial SESSIONS

All TutORials are located in the CC - Room 6A, Level 6

SUNDAY, OCTOBER 20

Channel Fulfillment Problem Optimization 11am–12:30pm
Vivek Farias and Jason Acimovic, MIT

Field Experiments in Operations Management 1:30–3pm
Bradley R. Staats, University of North Carolina

Deep Learning in Computer Vision: Methods, Interpretation, Causation, and Fairness 4:30–6pm
Param Vir Singh, Carnegie Mellon University

MONDAY, OCTOBER 21

The Secrets of Machine Learning: Ten Things You Wish You Had Known Earlier to be More Effective at Data Analysis 8–9:30am
Cynthia Rudin, Duke University

Health System Innovation: Analytics in Action 11am–12:30pm
Retsef Levi, MIT

Recent Advances in Multimodal Bandits for Sequential Decision Making 1:30–3pm
Shipra Agrawal, Columbia University

Wasserstein Distributionally Robust Optimization: Theory and Applications in Machine Learning 4:30–6pm
Daniel Kuhn, École Polytechnique Fédérale de Lausanne (EPFL)

TUESDAY, OCTOBER 22

Data-driven Methods for Markov Decision Problems with Parametric Uncertainty 7:30–9am
She Mannor, Technion

Structural Econometric Models 10:30am–12noon
Yong Tan, University of Washington

Scheduling an Overloaded Multiclass Many-Server Queue with Impatient Customers 12:05–1:35pm
Amy Ward, University of Southern California

The Use of Data Science for Supply Chain Transportation Management 2–3:30pm
Samuel K. Eldersveld, Amazon.com

This year’s volume “Operations Research & Management Science in the Age of Analytics” provides contributions to several topics in applied analytics. The volume covers methodological areas including machine learning, deep learning, reinforcement learning, distributionally robust optimization, data-driven decision making, and stochastic models. Application areas include online retailing, healthcare, field experiments, and computer vision. It provides expert advice to practitioners in the appropriate use and interpretation of machine learning models. When you register you have exclusive access to 2019 TutORials, and its archive. For more information, please visit: pubsonline.informs.org/series/educ.

(Sync-to-slide TutORial Sessions available)
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**MASTER TRACK | SUNDAY**

CC - Washington State Convention Center | S - Sheraton Grand Seattle Hotel

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## MASTER TRACK | TUESDAY

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**INFORMS Annual Meeting**

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**INFORMS Annual Meeting**
INFORMS Annual Meeting

MASTER TRACK | WEDNESDAY
CC - Washington State Convention Center  |  S - Sheraton Grand Seattle Hotel

TRK ROOM  | WA (8–9:30am)  | WB (11am–12:30pm)  | WC (1:30–3pm)  | WD (3:20–4:50pm)
---  | ---  | ---  | ---  | ---
1  | CC - Rm. 201  | Data Mining  | Data Mining  | Data Mining
2  | CC - Rm. 202  | Data Mining  | Data Mining  | Data Mining
3  | CC - Rm. 203  | Healthcare  | MSOM - Healthcare  | Data Mining  | Data Mining
4  | CC - Rm. 204  | Data Mining  | Data Mining  | Data Mining
5  | CC - Rm. 205  | Data Mining  | Data Mining  | Data Mining
6  | CC - Rm. 207  | No Session  | Data Mining  | Data Mining
7  | CC - Rm. 210  | Data Mining  | Data Mining  | Data Mining
8  | CC - Rm. 211  | Artificial Intelligence  | Artificial Intelligence  | Artificial Intelligence  | Artificial Intelligence
9  | CC - Rm. 212  | Artificial Intelligence  | Artificial Intelligence  | Artificial Intelligence  | Artificial Intelligence
10  | CC - Rm. 213  | Social Media  | Social Media  | Social Media  | Social Media
12  | CC - Rm. 21A  | Applied Probability  | Applied Probability  | Applied Probability  | Applied Probability
13  | CC - Rm. 21B  | Forecasting  | Applied Probability  | Applied Probability  | Decision Analysis
14  | CC - Rm. 302  | MSOM  | MSOM  | MSOM
15  | CC - Rm. 303  | MSOM - Service Operations  | Decision Analysis  | Decision Analysis  | Research & Decision Support
16  | CC - Rm. 304  | MSOM - Service Operations  | MSOM - Service Operations  | MSOM - Service Operations
17  | CC - Rm. 305  | MSOM - Service Operations  | MSOM - Service Operations
18  | CC - Rm. 306  | MSOM - Supply Chain  | MSOM - Supply Chain
19  | CC - Rm. 307  | Behavioral Operations  | Behavioral Operations
20  | CC - Rm. 308  | Education  | Education  | Service Science & DA
21  | CC - Rm. 309  | Minority Issues  | France  | Forecasting
22  | CC - Rm. 310  | MSOM - Sustainable Operations  | MSOM - Sustainable Operations
23  | CC - Rm. 3A  | Decision Analysis  | Decision Analysis
24  | CC - Rm. 3B  | Decision Analysis  | Decision Analysis
25  | CC - Rm. 401  | Revenue Management  | Revenue Management
26  | CC - Rm. 4C-1  | Service Science  | Service Science
27  | CC - Rm. 4C-2  | Service Science  | Service Science
28  | CC - Rm. 4C-3  | Service Science  | Game Theory
29  | CC - Rm. 4C-4  | A&O & Market Design  | A&O & Market Design
30  | CC - Rm. 4A  | Opt. Network  | Decision Support  | Retail Management  | Reliability & Repair
31  | CC - Rm. 4B  | Military & Security  | Military & Security
32  | CC - Rm. 4C  | Semiconductor Industry & Manufacturing  | Semiconductor Industry & Manufacturing
34  | CC - Rm. 603  | Optimization & Sustainability  | Optimization & Sustainability
39  | CC - Rm. 608  | Heuristic Programming  | Heuristic Programming
43  | CC - Rm. 612  | Computing  | Computing  | Computing
44  | CC - Rm. 613  | Computing  | Computing  | Computing

INFORMS Annual Meeting

MASTER TRACK | WEDNESDAY
CC - Washington State Convention Center  |  S - Sheraton Grand Seattle Hotel

TRK ROOM  | WA (8–9:30am)  | WB (11am–12:30pm)  | WC (1:30–3pm)  | WD (3:20–4:50pm)
---  | ---  | ---  | ---  | ---
45  | CC - Rm. 614  | Opt., Nonlinear Programming  | Opt., Nonlinear Programming
46  | CC - Rm. 615  | TSL - Intelligent Transportation  | TSL - Intelligent Transportation
47  | CC - Rm. 616  | Vehicle Routing  | Vehicle Routing  | Transportation  | Transportation
48  | CC - Rm. 617  | TSL - Freight  | TSL - Freight  | TSL - Intelligent Transportation
49  | CC - Rm. 618  | Inventory Management  | Inventory Management  | Facility Location
50  | CC - Rm. 619  | Transportation  | Transportation  | Bayesian Approach  | Network Optimization  | Freight
51  | CC - Rm. 620  | Aviation Applications  | Aviation Applications
52  | CC - Skagit 1  | Revenue Management & Pricing  | Financial Engineering  | Forecasting  | Revenue Management & Pricing
53  | CC - Skagit 2  | Revenue Management & Pricing  | Revenue Management & Pricing
54  | CC - Skagit 3  | Revenue Management & Pricing  | Revenue Management & Pricing
55  | CC - Skagit 4  | Revenue Management & Pricing  | Revenue Management & Pricing
56  | CC - Skagit 5  | Marketing  | Operations Management  | Marketing  | Operations Management
57  | CC - Yakima 1  | Public Sector OR  | Public Sector OR
58  | CC - Yakima 2  | Public Sector OR  | Big Data  | Big Data
59A  | CC - Chelan 1  | Technology Tutorials  | Technology Tutorials
59B  | CC - Chelan 2  | Quality, Statistics & Reliability  | Quality, Statistics & Reliability
59C  | CC - Chelan 3  | Applied Probability  | Data Mining  | No Session
60  | CC - Chelan 4  | Quality, Statistics & Reliability  | Quality, Statistics & Reliability
61  | CC - Chelan 5  | Quality, Statistics & Reliability  | Quality, Statistics & Reliability
62  | CC - Tahama 1  | Health Applications  | Health Applications
63  | CC - Tahama 2  | Health Applications  | Health Applications
64  | CC - Tahama 3  | Health Applications  | Health Applications
65  | CC - Tahama 4  | Health Applications  | Health Applications
66  | CC - Tahama 5  | Health Applications  | Health Applications
67  | S - Virginia  | Supply Chain  | Opt., Combinatorial
68  | S - University  | Manufacturing  | Manufacturing  | Manufacturing & Networking
69  | S - Seattle  | Telecommunications & Network  | Telecommunications & Network
70  | S - Jefferson A  | Finance & Empirical
71  | S - Jefferson B  | Behavioral Operations  | Behavioral Operations
72  | S - Columbia  | Information Systems  | Information Systems
73  | S - Boren  | Practice Curated  | Practice Curated
74  | S - Capital Hill  | A&O & Remanufacturing  | Game Theory
75  | S - Kent  | Fleet Simulation  | Fleet Simulation
76  | S - Hill B  | Operations Sustainability  | Operations Support Systems
77  | S - Fremont  | Production & Scheduling  | Innovation/Entrepreneurship
78  | S - Greenwood  | Big Data  | Big Data
79  | S - Snoqualmie 1  | Energy  | Energy
80  | S - Snoqualmie 2  | Energy  | Energy  | Energy
81  | S - Snoqualmie 3  | Energy  | Energy  | Energy  | Energy

INFORMS Annual Meeting

INFORMS Annual Meeting
The Conference Center rooms are located across from the Washington State Convention Center, at the corner of Pike Street and 8th Avenue.
**PLENARIES & KEYNOTES**

All plenaries and keynotes are located in the Washington State Convention Center (CC), Level 6

**SUNDAY, OCTOBER 20**

**Welcome & Plenary**  
9:50–10:50am  I  CC - 6E, Level 6  
Seeking Perfection: Reflections on the Journey

Introduction  
Ramayya Krishnan, Carnegie Mellon University  
INFORMS 2019 President

Keynote  
3:10–4pm  I  CC - 6A, Level 6  
Structured Optimization for Dexterous Robots

Russell Tedrake,  
MIT EECS

**MONDAY, OCTOBER 21**

**Plenary – OMEGA RHO**  
10–10:50am  I  CC - 6E, Level 6  
The Parametric Self-Dual Simplex Method: A Modern Perspective

Robert Vanderbei,  
Princeton University

**Keynote – IFORS**  
3:10–4pm  I  CC - 6A, Level 6  
Zero Carbon Analytics

Andy Philpott,  
University of Auckland

**Keynote – MSOM Fellow**  
3:10–4pm  I  CC - 6B, Level 6  
The New Age of Healthcare Delivery

Linda Green,  
Columbia Business School

**Keynote – 2019 UPS**  
3:10–4pm  I  CC - 6C, Level 6  
U. of Cincinnati Analytics: History of Innovation & Practical Impact

Michael Fry & Glenn Wegryn, CAP,  
University of Cincinnati

**TUESDAY, OCTOBER 22**

**Plenary**  
9:30–10:20am  I  CC - 6E, Level 6  
Planning Transportation Capacity at Amazon

Russell Allgor,  
Amazon

**Keynote – Wagner Prize Winner**  
3:40–4:30pm  I  CC - 6E, Level 6  
2019 Wagner Prize Winner Reprise

Daniel H. Wagner,  
Amazon

**Keynote – 2019 Franz Edelman Award Reprise**  
3:40–4:30pm  I  CC - 6B, Level 6  
Protecting Community Waterways: Applying Analytics & Optimization for Wastewater Management

Angela Akridge,  
Louisville Metropolitan Sewer District

Wolffie Miller,  
Louisville Metropolitan Sewer District

Diana Qing Tao,  
Tetra Tech
### PLENARIES & KEYNOTES

All plenaries and keynotes are located in the Washington State Convention Center (CC), Level 6.

#### TUESDAY, OCTOBER 22

**Keynote**

3:40–4:30pm | CC - 6C, Level 6

**Predictive Data Science for Physical Systems: From Physics-based Models to Scientific Machine Learning**

Karen Wilcox, University of Texas Austin

**Keynote**

3:40–4:30pm | CC - 6E, Level 6

**Learning Personalized Policies: Theory and Applications**

Susan Athey, Stanford Business School

#### WEDNESDAY, OCTOBER 23

**Keynote**

9:40–10:30am | CC - 6B, Level 6

**Marketplace Modeling: Managing Scale & Accuracy**

Nicolas Stier-Moses, Facebook

**Keynote**

9:40–10:30am | CC - 6C, Level 6

**People, Machines, and Intelligence**

Eric Horvitz, Microsoft

### EXHIBIT HALL MAP - EXHIBIT HALL 4AB, LEVEL 4

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<th>Posters</th>
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<td>AIMS</td>
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<td>Amazon</td>
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<td>AMPL</td>
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<td>Antelys Corp.</td>
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<td>AT&amp;T</td>
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<td>Automation Anywhere</td>
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<td>Binghamton University</td>
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<td>BoldIQ</td>
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<td>Cambridge University Press</td>
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<td>FAMU-FSU College of Engineering</td>
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<td>FICO® Xpress</td>
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<td>Flexsim Software Products, Inc.</td>
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<td>Frontline Systems, Inc.</td>
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<td>Johnson &amp; Johnson</td>
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<td>LINDO Systems, Inc.</td>
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<td>Litic Software</td>
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<td>Massachusetts Institute of Technology</td>
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**Networking Lounge**

23

**COFFEE BREAKS**

19 & 12

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**EXHIBIT HALL MAP**

- **CENTER**
- **POSTER SESSIONS**
- **COFFEE BREAKS**
- **NETWORKING LOUNGE**
- **CAREER CENTER**

**All plenaries and keynotes are located in the Washington State Convention Center (CC), Level 6.**
AIMMS
Booths #3 & 4  I  aimms.com
AIMMS is an innovative technology company with offices in Europe, the U.S., and Asia. Half of the global Fortune top 20 corporations rely on AIMMS because of our unique analytics, modeling, and optimization platform that supports both strategic and daily operational challenges such as supply chain optimization, strategic sourcing, pricing, workforce optimization, portfolio optimization, and production planning and scheduling.

Amazon
Booth #41  I  amazon.com
At Amazon, we fundamentally believe that scientific innovation is essential to being the most customer-centric company in the world. It’s this ability to have an impact at scale that allows us to attract some of the brightest minds in artificial intelligence and related fields. Our scientists continue to publish, teach, and engage with the academic community, but one of the unique aspects of research at Amazon is our working backward method applied to science. Each research project starts with a customer pain point and a description of how a scientific solution will improve the customer experience. Come build the future with us!

AMPL
Booth #30  I  ampl.com
AMPL is the exceptionally powerful and natural tool for developing and deploying the complex optimization models that arise in diverse business and engineering applications. AMPL’s modeling language lets you formulate problems the way you think of them, while the AMPL interactive development system supports all the best large-scale solvers to help you find good solutions fast. AMPL also features an integrated scripting language for automating analyses and building iterative optimization schemes, application programming interfaces for embedding your models within enterprise systems, and alternatives for deploying AMPL models as web-based collaborative decision-making tools.

Artelys Corp.
Booth #15  I  artelys.com
Artelys is a global provider of decision-support solutions through numerical optimization and analytics technologies, with offices in France, the United States, Canada, and Belgium. The organization is exceptionally concerned about impending changes in their operations or are frustrated with a process that needs to be improved. Our software combines powerful statistical analysis with 3D visualization, allowing our users to easily build, deploy, and use the analytics solutions that are key to business strategy. Composed of powerful core components — FICO® Xpress Insight, FICO® Xpress Executor, FICO® Xpress Solver, and FICO® Xpress Workbench — this intuitive analytics platform is designed for business users and analysts. It allows you to tackle large and complex problems that can make the difference between success and failure in today’s marketplace. Standard capabilities include scalable high-performance solvers and algorithms, flexible modeling environments, rapid application development, and comparative scenario analysis and reporting capabilities for both on-premises and cloud installations.

Binghamton University
Booth #34  I  binghamton.edu
Binghamton University offers BS, MS, and PhD options in Industrial and Systems Engineering, and an executive health systems program in Manhattan. Learn from award-winning professors in a vibrant and rapidly growing department. Enjoy research opportunities in health systems, data science, supply chain/logistics, smart energy, and other disciplines.

BoldQ
Booth #60  I  boldiq.com
An operationally focused optimization platform, BoldIQ’s cloud-based industry solutions deliver actionable insights to improve performance. BoldIQ provides a home for peer-reviewed implementation. Solver, the next generation platform for optimized scheduling and disruption management, instantly takes people, physical assets, current demand, resources, costs, constraints, and rules into full account to provide real-time results for ultra-complex problems. Solver’s rich business-focused configuration options quickly free up capacity for growth, reduce operating costs, and improve customer response times. Solver considers the widest range of resources and constraints, including all operational resources. Unlike traditional scheduling, Solver recognizes constraints within current and future resource states, and transitions between them.

Cambridge University Press
Booth #6  I  cambridge.org
Cambridge University Press is a not-for-profit publisher that dates from 1534 and is part of the University of Cambridge. Our mission is to unlock people’s potential with the best learning and research solutions by combining state-of-the-art content with the highest standards of scholarship, writing, and production. Visit our stand to discuss publishing with us, browse our latest publications and pick up some free journal samples. All the books we have on display are available for purchase at a 20% discount.

DecisionBrain
Booth #21  I  decisionbrain.com
DecisionBrain is a high-tech company that creates advanced analytics solutions. We use optimization, machine learning, artificial intelligence, and predictive analytics to develop innovative software that enables our customers to improve operational productivity, efficiency, and responsiveness. Founded in 2013 by professionals with 20+-years of experience we have built a growing team, most of them Phds, engineers, or mathematicians. We are also a recognized global IBM Business Partner. Our customer base is global and all industries. Our software has solved over 1000 businesses in China, the United Kingdom, France, Germany, Denmark, Thailand, Canada, and Colombia.

Dynamic Ideas
Booth #18  I  dynamicideas.com
Dynamic Ideas LLC is a publisher of scientific books that have quality and originality in the areas of operations research and applied mathematics. The key objective of our titles is to “educate the next generation.” Many of our books are currently being used as the main textbook in academic courses in some of the finest universities and research institutions in the world.

Elsevier
Booth #35  I  elsevier.com
Elsevier is a leading publisher of operations and decision science research. The journals published by Elsevier are widely used as the main textbook in academic courses in some of the finest universities and research institutions in the world.

FAMU-FSU College of Engineering
Booths #51 & 52  I  eng.famu.fsu.edu
The College of Engineering will feature artifacts of research from the Department of Industrial Engineering. Research areas include such topics as applied optimization, high-performance inference, and nanomaterials, and multifunctional nanomaterials advanced manufacturing. Brochures for undergraduate and graduate programs will also be on display.

FICO® Xpress
Booths #32 & 33  I  fico.com
FICO® Xpress Optimization helps our clients deliver end-to-end analytics solutions 50%-80% faster, and at higher quality than traditional approaches. FICO’s deep portfolio of optimization options allows users to easily build, deploy, and use the analytics solutions that are key to business strategy. Composed of powerful core components — FICO® Xpress Insight, FICO® Xpress Executor, FICO® Xpress Solver, and FICO® Xpress Workbench — this intuitive analytics platform is designed for business users and analysts. It allows you to tackle large and complex problems that can make the difference between success and failure in today’s marketplace. Standard capabilities include scalable high-performance solvers and algorithms, flexible modeling environments, rapid application development, and comparative scenario analysis and reporting capabilities for both on-premises and cloud installations.

FlexSim Software Product, Inc.
Booths #36  I  flexsim.com
FlexSim is 3D simulation modeling software for industrial and healthcare operations, transforming you into data into accurate predictions. Our clients are involved in process improvement. They are typically concerned about impending changes in their operations or are frustrated with a process that needs to be improved. Our software combines powerful statistical analysis with 3D visualization, allowing our users to easily build, deploy, and use the analytics solutions that are key to business strategy. Composed of powerful core components — FICO® Xpress Insight, FICO® Xpress Executor, FICO® Xpress Solver, and FICO® Xpress Workbench — this intuitive analytics platform is designed for business users and analysts. It allows you to tackle large and complex problems that can make the difference between success and failure in today’s marketplace. Standard capabilities include scalable high-performance solvers and algorithms, flexible modeling environments, rapid application development, and comparative scenario analysis and reporting capabilities for both on-premises and cloud installations.

Frontline Systems, Inc.
Booth #26  I  solver.com
Frontline Systems, Inc. “citizen modelers and developers” to create analytic models and quickly deploy them into production, using familiar tools like Excel Online, PowerApps, Power BI, and Tableau, rather than expensive enterprise software with steep learning curves. See how easily you can solve optimization, simulation/risk analysis, forecasting and data mining problems. With Solver and XLMR, you can develop a suite of powerful, affordable software and web tools to create your own analytics applications. Find your fastest path to real analytics results.
IBM Booth #25 | ibm.com
Critical business decisions can be made with ease when you know what is likely to happen in the future and how you should respond. IBM is paving the way to the next generation of analytics solutions and platforms by combining descriptive, predictive, and prescriptive analytics with input of cloud and cognitive insights. These advanced analytics capabilities robust, user-friendly platforms aimed at helping you solve even the most complex business and research problems.

GoldSim Booth #42 | goldsim.com
GoldSim Technology Group began developing GoldSim, its probabilistic simulation platform, in 1990. The software is used primarily for engineering and scientific applications in over 60 countries worldwide. GoldSim is a graphical, object-oriented hybrid simulator that can simultaneously represent continuous and discrete dynamics. GoldSim provides powerful probabilistic simulation capabilities to support representation of uncertain and/or stochastic systems. It also provides a wide variety of specialized model objects to make models less abstract (and hence more transparent). This includes specialized modules to support risk analysis, financial modeling, and mass transport modeling.

Gurobi Optimization Booth #19 & 20 | gurobi.com
Gurobi Optimization specializes in helping our users succeed with optimization. We provide the leading math programming solvers, offering best in class performance as well as a broad array of tools for developing and deploying optimization applications on top of these solvers. We support all the most popular programming languages, as well as client-server architectures, cloud computing, and distributed optimization. We also provide outstanding, easy-to-reach support and transparent, no-surprises pricing.

LINDO Systems, Inc. Booth #27 | lindo.com
Ease of use, a wide range of capabilities, and flexibility makes LINDO software the tool of choice for thousands of O.R. professionals in nearly every industry. LINDO offers solvers to cover all your optimization needs. The linear programming solvers handle millions of variable/constraint problems fast and reliably. The Quadratic/SOCP/Barrier solver efficiently handles quadratically constrained problems. The Integer solver works with LP, QP, and NLP models. The Global NLP solver finds the guaranteed optimal solution of nonconvex models. The stochastic programming solver has a full range of capabilities for planning under uncertainty. LINDO provides a set of intuitive interfaces to suit your modeling preference.

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GameLab Booth #14 | gamelabeducation.com
At GameLab Education we develop management laboratories for university and corporate classrooms around the world. We are undergrad, postgrad, and executive learners can experiment with their decisions. They can fail, try again, succeed, and then learn in a risk-free environment, without risking a bad grade, a job, or a complaint. And, since they are games, the experience is fun, competitive, and unforgettable, so both learners and lecturers have a great time. We have seven simulators in the areas of operations management, inventory optimization, pricing, warehousing, strategy, innovation, entrepreneurship, and brand management.

GAMS Booth #29 | gams.com
The General Algebraic Modeling System (GAMS) is a high-level modeling system for mathematical programming and optimization. It consists of a language compiler and a stable of integrated high-level modeling solvers. GAMS is tailored for complex, large-scale modeling applications, and allows you to build large maintainable models that can be adapted quickly to new situations. Come to our booth to learn more about GAMS or ask for an evaluation license. You can also visit our technology workshop or software demo.

IFORS Booth #52 | ifors.org
The International Federation of Operational Research Societies is an umbrella organization comprising the national operations research societies of over 45 countries from 4 geographical regions: Asia, Pacific Europe, North America, South America. IFORS’ mission is to promote operations research as an academic discipline and a profession.

JMP, a Division of SAS Booth #17 | jmp.com
JMP® statistical discovery software from SAS is the tool of choice for scientists, engineers, and analysts worldwide. JMP links dynamic data visualization with powerful statistics and predictive analytics, in memory and on the desktop. Interactive and visual, JMP reveals insights that raw tables of numbers or static graphs tend to hide. Johnson & Johnson Booth #59 | jnj.com
Caring for the world, one person at a time has inspired and united the people of Johnson & Johnson for over 125 years. We embrace research and science, bringing innovative ideas, products and services to advance the health and well-being of people. Employees of the J & J Family of Companies work with partners in health care to touch the lives of over a billion people every day, throughout the world. We are changing the trajectory of human health via the latest science, technology. Kuaishou was created based on the belief that everyone's lives are worth chronicling. From videos to games, the experience is fun, competitive, and unforgettable, so both learners and lecturers have a great time. We have seven simulators in the areas of entrepreneurship, and brand management.

Lyt Booth #9 | lyft.com
At Lyft, we're reimagining the world's best transportation. We envision a world where cities feel smaller again. Where transportation and tech bring people together, instead of apart. We see the future as community-driven—and it starts with you. Community is what we are, it's what we do, and it's what makes us different. To create the best ride for all, we start in our own community, by creating an open, inclusive, and diverse organization where all team members belong. We are working to improve people's lives with the world's best transportation.

EXHIBITOR DIRECTORY

Massachusetts Institute of Technology (MIT) Booth #2 | mit.edu/academic
MIT’s newest and most competitive degree, the Master of Business Analytics (MBAn) program, prepares students for careers that apply and manage modern data science to solve critical business challenges. Launched by MIT Sloan with support and leadership from the MIT Operations Center, this full-time, year-long program is divided into three semesters: fall, spring, and summer and includes core coursework in machine learning, data mining, optimization, software tools, and probability & stochastic models. The highlight of MIT’s MBAn program is the 7-month Analytics Capstone Project, which seeks to provide students will real-world data science challenges.

MathWorks Booth #58 | mathworks.com
The MATLAB and Simulink product families are fundamental applied math and computational tools at the world's educational institutions. Adopted by more than 5,000 universities and colleges, MathWorks products also help prepare students for careers in industry worldwide, where the tools are widely used for data analysis, mathematical modeling, and algorithm development in collaborative research and new product development. Application areas include data analytics, mechatronics, communication systems, image processing, computational finance, and computational biology.

MemComputing, Inc. Booth #46 | memcomputing.com
MemComputing, Inc. technology helps companies solve previously intractable optimization problems. MemComputing's novel MemCPU™ Coprocessor accelerates compute times for complex and large optimization problems associated with big data analytics and operations research reducing the processing time by orders of magnitude. The company’s technology platform leverages physics and human brain logic processes creating a new computing paradigm.

MyEducator Booth #57 | myeducator.com
MyEducator is a smart textbook publisher offering high-quality multimedia content with auto-graded assessments, expansive instructor material, full LMS integration, all on an easy-to-use intuitive platform. We provide best-in-class support for instructors and students.

North Carolina State University Booth #1 | ise.ncsu.edu
The Edward P. Fitts Department of Industrial and Systems Engineering at NC State University is among the top ranked programs in the country. The department brings together industry professionals and academic leaders across innovative and cutting-edge curriculum including regenerative medicine, health systems, and advanced manufacturing.

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North Dakota State University
Booth #21 ndsu.edu/ime
The Department of Industrial and Manufacturing Engineering (IME) at North Dakota State University is well-known for its high-quality programs in innovative teaching, imaginative research, and student focus. The industrial and manufacturing engineering BS and MS degrees in two programs of study: Industrial engineering and management, and Manufacturing engineering and a PhD program in Industrial Engineering. Nearly all industries are striving for professionally educated and skilled problem solvers with great communication abilities. IME graduates are well-positioned to meet these needs. This gives careers nearly an endless number of opportunities for career choices and geographic locations, as well as fast-paced career growth.

Optimization Direct
Booth #23 optimizationdirect.com
Optimization Direct, founded by Dr. Robert Ashford, a pioneer in the field of optimization, and Dr. Aliks Vazacopoulos, a leader in the industry, markets IBM® ILOG®, CPLEX Optimization Studio®, the world’s leading software product for modeling and optimization. CPLEX Optimization Studio solves large-scale optimization problems and enables better business decisions and resulting financial benefits in areas such as supply chain management, operations, healthcare, retail, transportation, logistics, and asset management. It has been applied in sectors as diverse as manufacturing, processing, distribution, retailing, transport, finance, and investment.

The Optimization Firm
Booth #5 minlp.com
The Optimization Firm is a deep tech company founded on breakthrough software engineering. Its software products are used in a wide variety of academic and industrial applications ranging from asset management firms and chemical process industries to energy production and pharmaceuticals. The Optimization Firm flagship product, BARON, is the most advanced solver for global optimization. Within seconds, BARON solves nonconvex optimization problems to global optimality, providing the best solutions to some of the hardest problems in computational decision making. More than 400 institutions in over 50 countries rely on BARON for its fast and accurate solutions. The Optimization Firm recently developed ALAMO, a code for black box optimization and learning of algebraic models from data. The models generated by ALAMO are accurate, simple in functional form, and generated from a minimal experimental data set.

Pacific Northwest National Laboratory
Booth #37 pnnl.gov
The Pacific Northwest National Laboratory (PNNL) advances the frontiers of knowledge, taking on some of the world’s greatest science and technology challenges. Distinctive strengths in chemistry, earth sciences, and data analytics are the heart of our science mission, laying a foundation for innovations that improve America’s energy resiliency and enhance our national security. Whether our researchers are unlocking the mysteries of Earth’s climate, helping modernize the U.S. electric power grid, or safeguarding ports around the world from nuclear smuggling, we accept great challenges for one purpose: to create a world that is safer, cleaner, more prosperous, and more secure.

Palisade
Booth #44 palisade.com
Palisade Corporation is the maker of the market leading risk and decision analysis software @RISK and the DecisionTools® Suite. Virtually all Palisade software adds in to Microsoft Excel, ensuring flexibility, ease-of-use, and broad appeal across a wide range of industry sectors.

Processim Labs
Booth #55 processimlabs.com
We are turning smartphones into pocket simulators that college professors can use as powerful and convenient teaching tools. As Processim Labs, we develop college-level educational games. Simulations of complex processes designed specifically for mobile devices, that enable students to learn by doing, put their decision-making skills to practice, and exercise critical thinking in a fun, entertaining, and dynamic way.

ProCogia
Booth #40 pro cogia.com
ProCogia is a data science consulting firm that utilizes mathematics, business and technology to solve your most pressing issues and place your company ahead of the competition. We provide end-to-end data services that are business, industry, and technology agnostic. ProCogia supports local community groups such as the PNW INFORMS chapter and useR Meetups.

Provatis Research
Booth #43 provatisresearch.com
Provatis Research is a leading developer of text analytics software with ground-breaking qualitative and quantitative analysis programs such as QDA Miner, an innovative mixed-methods qualitative data analysis software; WordStat, a powerful add-on module for computer-assisted content analysis, and text mining; and SimStat, an easy yet powerful statistical software. These tools are interoperable, allowing researchers to integrate numerical and textual data into a single project file and seamlessly move back and forth between quantitative and qualitative data analysis, as well as to easily explore relationships between numerical and textual data.

Responsive Learning Technologies
Booth #31 responsive.net
Responsive Learning Technologies provides compelling business simulations to teach operations management and supply chain management in a dynamic context and adaptive self-study software to help students prepare for beginning a degree program. Our software has enriched courses at the undergraduate, graduate, and executive levels for thousands of students at hundreds of institutions in dozens of countries. Our products are developed with leading scholars to achieve well-defined learning objectives.

SAS
Booth #16 sas.com
The effective use of analytics is more important than ever for a wide range of organizations. The most effective analytics are coordinated, and the best and most complete set of coordinated analytic capabilities comes from SAS. Data integration, statistics, data mining and machine learning, econometrics, and forecasting integrate deeply with each other and with core operations research features like mathematical optimization algorithms. SAS provides end-to-end analytics that are engineered specifically to generate insights and provide guidance across the analytic spectrum, scale to meet evolving needs, and support diverse analytic approaches. SAS analytics are cloud-enabled and accessible from Python, Lua, Java, R, and the SAS programming language.

Seygenta
Booth #50 syngenta.com
Syngenta is a leading agriculture company helping to improve global food security by enabling farmers in 90 countries to make better use of available resources. Through world-class science and innovative crops, our 28,000 people in over 90 countries are working to transform how crops are grown. We are accelerating innovation to address the increasing challenges faced by farmers and the changing views of society.

T-Mobile
Booth #39 t-mobile.com/carriers
The Un-carrier is all about putting customers first. Where the other guys see numbers, we see people. It’s the reason every decision we make is centered around doing what’s right by the customer and solving their pain points. Our investments in new geographies, underpenetrated segments, and a
University of Florida
Booth #45  ise.ufl.edu
The University of Florida, Industrial and Systems Engineering Department presents information on world-class graduate and undergraduate academic programs as well as faculty and student accomplishments. Visit our booth for details on research and education in applied operations research, data analytics, health systems, human systems, optimization, and supply chains & logistics.

Virginia Tech
Booth #61  ise.vt.edu
The Department of Industrial and Systems Engineering at Virginia Tech prepares students for life-long success and leadership in the profession, in industry, and in higher education. Our faculty and students are actively researching in a broad range of topics, particularly in the areas of human factors engineering and ergonomics, management systems engineering, manufacturing systems engineering, and operations research.

Walmart Labs
Booth #10  walmartlabs.com
Imagine working in an environment where one experiment can catapult an entire industry toward a smarter future. That’s what we do at Walmart Labs. We’re a team of 5,000+ software engineers, data scientists, designers, and product managers within Walmart, the world’s largest retailer, delivering innovations that improve how our customers shop and our enterprise operates. Are you a trailblazer who’s ready for rapid growth and learning? Join us—the future is yours to build and explore.

Wayfair
Booth #48  wayfair.com
Wayfair is a technology leader, changing the way people shop for their homes. Founded in 2002, Wayfair has been growing 40% year over year, building a catalog of 10M+ products that cater to every home, style, and budget. This growth is made possible by our strong focus on using data to power all facets of our business. Our data science, operations research, and supply chain analytics teams are growing fast—come by our booth to learn more!

Wiley
Booth #56  wiley.com
Wiley, a global company, helps people and organizations develop the skills and knowledge they need to succeed. Our online scientific, technical, medical, and scholarly journals, combined with our digital learning, assessment, and certification solutions help universities, societies, businesses, governments, and individuals increase the academic and professional impact of their work.

Check the INFORMS Annual Meeting website or mobile app for the most up-to-date exhibitor directory information.
The latest and greatest.

Gurobi Optimization will give a sneak peek of the much anticipated release of Gurobi Optimizer v9.0, the most powerful version of the world’s leading solver. With new features and significant performance improvements, we are redefining what’s possible for our users.

Visit booth #20 at the INFORMS Annual Meeting in Seattle to:

- Participate in the Gurobi’s Biggest Fan contest
- Pick up a free t-shirt* and other Gurobi swag
- Learn about one of the most significant Gurobi product releases in the history of the company

*While supplies last.

Want to learn more about Gurobi v9.0 directly from the experts?
Come see us in the Exhibit Hall or attend one of our sessions.
View our schedule at www.gurobi.com/informs2019