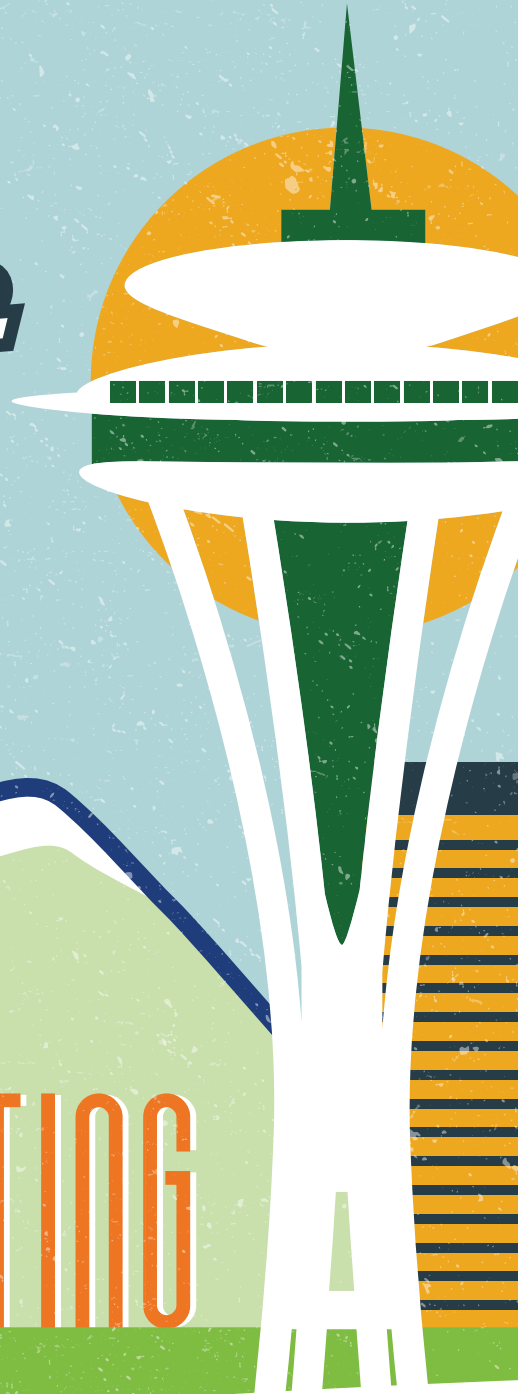


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ANNUAL MEETING



2019 Seattle



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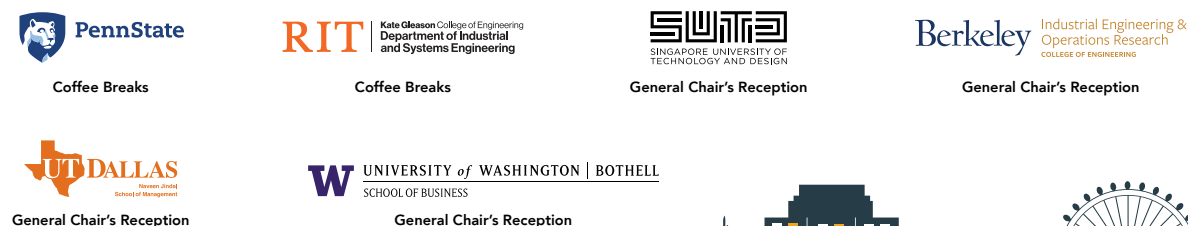
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WELCOME FROM THE GENERAL CHAIR

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, ISYE, Georgia Tech University; Dr. Nicolas Stier-Moses, who co-directs Facebook Core; Data Science Professor Andy Philpott of the University of Auckland will deliver the IFORS Distinguished Lecture keynote. 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 one of Seattle's popular destinations. We thank Boeing for organizing a visit there.

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 Simge Küçükyavuz of Northwestern University; Sponsored Sessions Chair Professor Surya Pathak of the University of Washington Bothell; Contributed Sessions Chairs Professor John Gunnar Carlsson of the University of Southern California and Professor Harish Krishnan of the University of British Columbia; Poster (Interactive) Sessions Chairs Professor Shan Liu and Professor Michael Wagner, both from the University of Washington; Practice Curated Program Chairs Dr. Shervin Beygi from Boeing and Dr. Amitabh Sinha from Amazon; and Arrangements Chair Professor Zelda 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



GENERAL INFORMATION

WI-FI INFORMATION

INFORMS will provide free Wi-Fi in the Washington State Convention Center, Exhibit Hall 4AB, Level 4. The Sheraton has free Wi-Fi in the lobby only.

Network: informs2019 | Password: Seattle19

MOBILE APP

The INFORMS Meetings App is available for iOS and Android devices. Info including the schedule of sessions, session abstracts, meeting locations, maps, exhibit details, and much more can be found on the app. This app can be downloaded directly to your device by visiting the iTunes Store or the Google Play Store and searching for "INFORMS Meetings."

When you view the meeting program in the app, you can either browse through the parallel sessions and special events or search for a specific speaker or keyword. As you locate the events, sessions, and presentations you are interested in, click on the star button, which bookmarks it to the My Schedule itinerary. Use My Schedule for a quick reference tool. One of the great features of this conference app is that it allows you to share contact information with other attendees using the Badge Scanner.

SELF-SERVICE KIOSKS

Receipts

Print your conference receipt on demand by going to the Washington State Convention Center, Atrium Lobby, Level 4 located near INFORMS Registration.

Program Flip Books

Four kiosks are available for full program information. Three are located in the Washington State Convention Center and the fourth kiosk will be located in the Sheraton on the Lobby Level.

Ribbons

Are you a Session Chair, Cluster Chair, or Poster Presenter? We have a 'Ribbon Wall' where you can select a ribbon or ribbons that can be added to your badge holder! The Ribbon Wall will be located in the Washington State Convention Center, Atrium Lobby, Level 4, near INFORMS Registration.

SOCIAL MEDIA

Twitter

Join the Twitter Conversation. Add #informs2019 to your tweets to associate them with the meeting. Tweets with #informs2019 will be displayed in the Attendee Twitter Feed on the homepage, along with official conference tweets that will alert you to late-breaking information. Follow @INFORMS2019 for official meeting announcements.

Instagram

Engage with INFORMS on Instagram. Follow our INFORMS Instagram account @INFORMS_ORMS to stay in the loop with conference happenings. Share your experience by uploading pictures. Tag @INFORMS_ORMS and use #informs2019.

Snapchat

Follow Us on Snapchat @INFORMS_ORMS.

Check out real time conference videos and photos on INFORMS Snapchat. Use the INFORMS Seattle Geofilter, available in the convention center and Sheraton, to share your memories and experiences.

Flickr

View all 2019 INFORMS Annual Meeting conference photos on our Flickr account.

Photos are uploaded daily and can be viewed, downloaded, and shared at flickr.com/informs.

eNEWS DAILY

INFORMS is publishing the tenth volume of its popular Annual Meeting *eNews Daily* in Seattle. This official record of the Annual Meeting is delivered each day to your inbox, and contains links to special Annual Meeting coverage in *OR/MS Today* and helpful resources on the INFORMS Annual Meeting website. These daily updates will provide a recap of the previous day's activities and a preview of upcoming can't-miss events.

There are links to each issue on the 2019 Annual Meeting website and in the mobile app. If you would like to advertise in *eNews Daily*, please visit the sponsor page on the Annual Meeting website.

BLOGGERS

Ted Allen	Gino Lim
John Angelis	Kayse Maass
Rishabh Bhandawat	Freeman Marvin, CAP
Alan Briggs, CAP	Polly Mitchell-Guthrie
Austin Buchanan	Serguei Netessine
Aaron Burciaga, CAP	Destenie Nock
Allen Butler	Patrick Noonan
Jim Cochran	Patricia Randall
Tinglong Dai	Paul Ruben
Greg Doonan	Matt Saltzman
Esma Gel	Thiago Serra
Mary Helander	Frances Sneddon
David Hunt	Shiva Subramanian
Margarit Khachatryan	Aurelie Thiele
Dirk Lauinger	



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EXHIBIT HALL INFORMATION

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

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 benefit 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.

Diversity, Equity & Inclusion Committee Meet & Greet

Monday, October 21 | 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 | 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.

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 | 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

Sunday, October 20 | 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 Resume Review

Sunday, October 20 | 12noon–5pm
Monday, October 21 | 9am–5pm
CC - Exhibit Hall 4AB, Level 4

Must have a previously scheduled appointment.

INFORMS Career Fair: On-site Interviews

Monday & Tuesday, October 21–22 | 8am–5pm
Wednesday, October 23 | 8am–1pm
CC - Exhibit Hall 4AB, Level 4

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 | 11am–12:30pm
- **Academic Job Search Panel (MC94)**
Monday, October 21 | 1:30–3pm



ELSEVIER

Editor Speed Review Sessions

We are delighted to invite you to attend a 15-minute Speed Review session with an editor from one of our journals below:

Monday 21st October 2019	Journal	Time
Stefan Nickel	Operations Research for Health Care	10:30am - 11:30am
Roman Slowinski	European Journal of Operational Research	15:00pm - 16:00pm
Francisco Saldanha da Gama	Computers & Operations Research	16:00pm - 17:00pm
Tuesday 22nd October 2019	Journal	Time
Emanuele Borgonovo	European Journal of Operational Research	10:30am - 11:30am
Ben Lev	OMEGA	13:00pm - 14:00pm
Jose Fernando Oliveira	European Journal of Operational Research	15:00pm - 16:00pm

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!



SCHEDULE AT A GLANCE

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

FRIDAY, OCTOBER 18

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

SATURDAY, OCTOBER 19

INFORMS Registration CC - Atrium, Level 4 7am-5pm
 Mother's Lounge CC - Suite C, Level 6 7am-6pm
 INFORMS Registration Satellite Counter S - Spruce, 2nd Floor 7am-8pm
 ISR Senior Editors Meeting (Invite Only) S - Diamond, 1st Floor 8am-12noon
 Organization Science Dissertation Competition S - Jefferson, 4th Floor 8am-5pm
 Childcare - Camp INFORMS (Must be Pre-Registered) S - Ballard, 3rd Floor 8am-5pm
 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 - Cirrus, 35th Floor, Pike St. Tower 5-9pm
 ISR Editors Reception 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 CC - Suite C, Level 6 7am-6pm
 INFORMS Registration Satellite Counter S - Spruce, 2nd Floor 7am-8pm
 Management Science Dept. AE Meeting (Invite Only) S - Cirrus, 35th Floor, Pike St. Tower 7:30-9am
 ITE Editorial Board Breakfast & Meeting (Invite Only) S - Juniper, 2nd Floor 7:30-9am
 Career Fair Breakfast & Panel S - Metropolitan B, 3rd Floor 7:30-9am
 Childcare - Camp INFORMS (Must be Pre-Registered) S - Ballard, 3rd Floor 7:30am-6:15pm
Technical Sessions (SA)
 INFORMS Board Meeting **CC & S - Various Rooms 8-9:30am**
 Coffee Break S - Metropolitan A, 3rd Floor 8:30am-5pm
Welcome & Plenary: Gary Kaplan CC - Level 6, Foyer & Atrium, Level 4 9:30-9:50am
 CIEADH S - Redwood, 2nd Floor 10am-6pm
Technical Sessions (SB)
 TutORial **CC & S - Various Rooms 11am-12:30pm**
 OMEGA RHO Meeting CC - 6A, Level 6 11am-12:30pm
 Management Science Board Meeting (Invite Only) S - Eagle, 1st Floor 12noon-2pm
 INFORMS Career Center S - Juniper, 2nd Floor 12noon-2:30pm
 INFORMS Center, Exhibits, Networking Lounge CC - Exhibit Hall 4AB, Level 4 12noon-5pm
 Area Editors in OPRE Meeting (Invite Only) CC - Exhibit Hall 4AB, Level 4 12noon-5pm
 Lunch Break (On Your Own) S - Diamond, 1st Floor 12noon-1:30pm
 12:30-1:30pm



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)
 TutORial **CC & S - Various Rooms 1:30-3pm**
Keynote: Russell Tedrake CC - 6A, Level 6 1:30-3pm
Keynote: Bar Ifach **CC - 6A, Level 6 3:10-4pm**
Keynote: UPS Smith Prize **CC - 6B, Level 6 3:10-4pm**
 Coffee Break **CC - 6C, Level 6 3:10-4pm**
Technical Sessions (SD) CC - Exhibit Hall 4AB, Level 4 4-4:30pm
 TutORial **CC & S - Various Rooms 4:30-6pm**
 INFORMS Community Meetings CC - 6A, Level 6 4:30-6pm
 Career Fair Employer Reception See Page 17
 Welcome Reception - Exhibits Open S - Cirrus, 35th Floor, Pike St. Tower 5:30-6:30pm
 INFORMS Awards Ceremony & Dessert Reception CC - Exhibit Hall 4AB, Level 4 7:30-9pm
 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 - Suite C, Level 6 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) **CC & S - Various Rooms 8-9:30am**
 TutORial CC - 6A, Level 6 8-9:30am
 ABoK Meeting S - Eagle, 1st Floor 8-10am
 INFORMS Career Center CC - Exhibit Hall 4AB, Level 4 8am-5pm
 Chapters/Fora Committee Meeting S - Redwood, 2nd Floor 9-10am
 INFORMS Center, Exhibits, Networking Lounge CC - Exhibit Hall 4AB, Level 4 9am-5pm
 Professional Development Committee Meeting S - Diamond, 1st Floor 9:15-10:15am
 Coffee Break CC - Exhibit Hall 4AB, Level 4 9:30-10am
 DECA Editorial Board Meeting (Invite Only) S - Juniper, 2nd Floor 9:30-11am
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 11am-12noon
Technical Sessions (MB) **CC & S - Various Rooms 11am-12:30pm**
 TutORial CC - 6A, Level 6 11am-12:30pm
 Flash Session CC - 3A, Level 3 11am-12:30pm



MONDAY, OCTOBER 21 (Continued)

Community Officers Appreciation Luncheon (Invite Only)	S - Redwood, 2nd Floor	12noon-1:30pm
IJOE 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
JFIG Luncheon (Paid Event)	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
Publications Editor-in-Chief Meeting (Invite Only)	S - Willow, 2nd Floor	12:30-3:30pm
Technical Sessions (MC)	CC & S - Various Rooms	1:30-3pm
<i>TutORial</i>	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: Ramayya 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	4:30-6pm
<i>TutORial</i>	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	6:30-7:30pm
Student Awards Ceremony & Reception	S - Metropolitan, 3rd Floor	7:30-9:30pm

TUESDAY, OCTOBER 22

INFORMS Registration	CC - Atrium, Level 4	7am-5pm
Mother's Lounge	CC - Suite C, Level 6	7am-6pm
Baggage Check	CC- Atrium, Level 4	7am-6:30pm
Transportation Science Associate Editors (Invite Only)	S - Diamond, 2nd Floor	7:30-9am
Technical Sessions (TA)	CC & S - Various Rooms	7:30-9am
<i>TutORial</i>	CC - 6A, Level 6	7:30-9am
Flash Session	S - Metropolitan A, 3rd Floor	7:30-9am
Childcare - Camp INFORMS (Must be Pre-Registered)	S - Ballard, 3rd Floor	7:30am-6:15pm
INFORMS Career Center	CC - Exhibit Hall 4AB, Level 4	8am-5pm
Coffee Break	CC - Exhibit Hall 4AB, Level 4	9-9:30am
INFORMS Center, Exhibits, Networking Lounge	CC - Exhibit Hall 4AB, Level 4	9am-5pm
Practice Strategy Committee Meeting	S - Eagle, 1st Floor	9:15-10:15am
Plenary: Russell Allgor	CC - 6E, Level 6	9:30-10:20am
Technical Sessions (TB)	CC & S - Various Rooms	10:30am-12noon
<i>TutORial</i>	CC - 6A, Level 6	10:30am-12noon
Flash Session	S - Metropolitan A, 3rd Floor	10:30am-12noon
Women in OR/MS Lunch (Paid Event)	S - Cirrus, 35th Floor, Pike St. Tower	12noon-1pm
OPRE Editorial Board (Invite Only)	S - Juniper, 2nd Floor	12noon-1:30pm



TUESDAY, OCTOBER 22 (Continued)

Technical Sessions (TC)	CC & S - Various Rooms	12:05-1:35pm
<i>TutORial</i>	CC - 6A, Level 6	12:05-1:35pm
Flash Session	S - Metropolitan A, 3rd Floor	12:05-1:35pm
IJOE 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
<i>TutORial</i>	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 - Metropolitan A, 3rd 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 Registration	CC - Atrium, Level 4	7am-3:30pm
Baggage Check	CC - Atrium, Level 4	7am-5pm
Mother's Lounge	CC - Suite C, Level 6	7am-5pm
Childcare - Camp INFORMS (Must be Pre-Registered)	S - Ballard, 3rd Floor	7:30am-5pm
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	1:30-3pm
Flash Session	S - Metropolitan A, 3rd Floor	1:30-3pm
Technical Sessions (WD)	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.



RECEPTIONS & SOCIAL EVENTS

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

SATURDAY, OCTOBER 19

Student Appreciation Event (Invite Only) 5-9pm | 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.

SUNDAY, OCTOBER 20

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

New INFORMS members received an invitation for this welcome breakfast, featuring a presentation on member benefits, a brief orientation to navigating the meeting, and a chance to connect with colleagues. Representatives from INFORMS Communities will facilitate networking tables where you can meet other new members who share your professional interests.

Career Fair Employer Reception (Invite Only) 5:30-6:30pm | S - Cirrus, 35th Floor, Pike St. Tower

Employers and recruiters are welcome to unwind and enjoy hors d'oeuvres, beer, and wine following the Career Fair on Sunday. Multiple giveaway items will be raffled during the reception.

Welcome Reception & Exhibits ★ 7:30-9pm | CC - Exhibit Hall 4AB, Level 4

Wear your Badge for Admission. All registrants are invited to join us for the Welcome Reception; it is the perfect venue to meet with colleagues and visit the exhibits. Light fare will be served. Soft drinks are complimentary, with a cash bar for other beverages.

INFORMS Awards Ceremony & Dessert ★ 8:30-9:45pm | CC - 6E, Level 6 (Doors close at 8:45pm)



The INFORMS Board of Directors invites you to honor and celebrate the achievements of our colleagues at the annual Awards Ceremony. Dessert and coffee will be served during the ceremony. Following the program, you'll have an opportunity to congratulate the awardees. We will

be announcing a new INFORMS award, the Donald P. Gaver Jr. Early Career Award for Excellence in Operations Research, to be awarded for the first time at the 2020 INFORMS Annual Meeting.

The following prestigious awards will be presented during the ceremony:

- **Bonder Scholarship for Applied Operations Research in Military Applications**
Nicholas Shallcross, University of Arkansas
- **Bonder Scholarship for Applied Operations Research in Health Services**
David Mildebrath, Rice University
- **Saul Gass Expository Writing Award**
Sunil Chopra, Northwestern University
- **John von Neumann Theory Prize**
Dimitris Bertsimas, MIT
Jong-Shi Pang, University of Southern California
- **Philip McCord Morse Lectureship**
Peter Glynn, Stanford University
- **INFORMS Case Competition**
To Be Announced
- **Lanchester Prize**
Tim Roughgarden, Stanford University
Omar Besbes, Columbia University
Yonatan Gur, Stanford University
N. Bora Keskin, Duke University
Assaf Zeevi, Columbia University
- **Prize for the Teaching of OR/MS Practice**
Patrick Noonan, Emory University
- **George E. Kimball Medal**
Peter C. Bell, Western University
Edward Kaplan, Yale University
- **INFORMS President's Award**
Dimitris Bertsimas, MIT

Four student awards will also be announced during the ceremony:

- **Undergraduate Operations Research Prize**
- **Doing Good with Good OR Student Competition**
- **George B. Dantzig Dissertation Award**
- **George E. Nicholson Student Paper Competition**



RECEPTIONS & SOCIAL EVENTS

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

MONDAY, OCTOBER 21

ACORD Meeting (Invite Only) 7:30-9am | S - Madrona, 2nd Floor

This meeting gives ACORD members the opportunity to discuss effective practices and exchange ideas. There will be a presentation by the INFORMS Vice President of Education and Vice President of Practice about initiatives that may impact O.R. departments.

Sponsored by Northwestern University IEMS Department.

COIN-OR Members & Users Meeting (Bring Your Own) Bag Lunch 12:30-1:30pm | CC - 613, Level 6

Anyone interested in open-source software tools, open standards, and data/model repositories for any aspect of operations research are encouraged to attend this Computational Infrastructure for OR (COIN-OR) meeting. Please bring your own lunch and ideas.

Junior Faculty Interest Group Luncheon 12:30-1:30pm | S - Aspen, 2nd Floor

A limited number of tickets may be available on site. Go to INFORMS Registration, CC - Atrium, Level 4, for information on event availability. 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 Georgia Tech - School of Industrial and Systems Engineering, Columbia University Business School (Decision, Risk, and Operations Division), UM Industrial and Operations Engineering, Cornell University ORIE, and Northwestern University (IEMS Department).

INFORMS Fellows Luncheon (Invite Only) 12:30-1:30pm | Metropolitan A, 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.

Class of 2019 Newly Elected INFORMS Fellows:

- Karen Aardal, Delft University of Technology
- Alper Atamtürk, University of California - Berkeley
- Xiuli Chao, University of Michigan
- Hung-Po Chao, PJM Interconnection
- Antonio Conejo, The Ohio State University
- Louis Anthony Cox Jr., University of Colorado and Cox Associates
- Brian Denton, University of Michigan
- Costis Maglaras, Columbia Business School
- Jong-Shi Pang, University of Southern California
- Roman Slowinski, Poznań University of Technology
- Chung Piaw Teo, National University of Singapore
- Zeld Zabinsky, University of Washington

Women in OR/MS Networking Reception 8:30-11:30pm | The Carlile Room 820 Pine Street, Seattle, WA 98101 (3-minute walk from Convention Center)

Women in OR/MS (WORMS) cordially invites you to the WORMS Networking Reception to network, enjoy drinks, and a buffet of savory and sweet delicacies. Open to all INFORMS members (members of WORMS or not), female and male! We hope to see you there.

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

All students registered for the meeting are invited to attend the 2019 Student Awards and Reception. Please join us for an evening of celebration, food and drink, fun, and networking. Come relax after a busy day of sessions and mingle with fellow INFORMS students from universities all around the world.

To be announced during the reception:

- **Judith Liebman Award**
- **Student Chapter Annual Awards**
- **INFORMS Undergraduate Scholarship Travel Awards**

Reception Sponsored by The Seth Bonder Foundation.





RECEPTIONS & SOCIAL EVENTS

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

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.

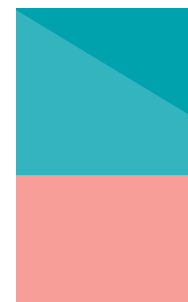
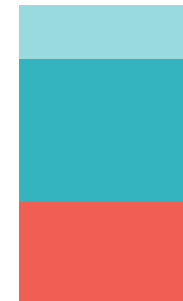
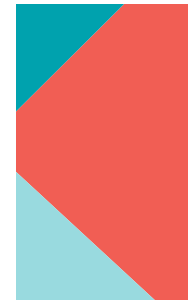
This reception provides the perfect atmosphere for fellowship and networking while also having a bit of fun after a long day of sessions.

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.



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.

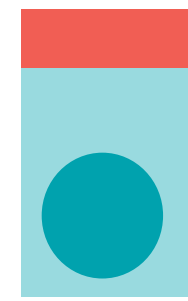
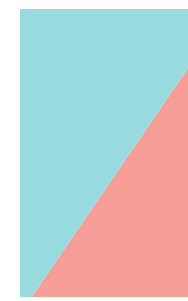
Editor-in-Chief: Dimitris Bertsimas, MIT

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
ProCogia 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 - 3B, 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
Litic 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



BUSINESS MEETINGS & RECEPTIONS

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

SATURDAY, OCTOBER 19

University of Texas-Dallas Reception S - Boren, 4th Floor 7pm-12midnight
Temple University Reception S - Grand Ballroom D, 2nd Floor 8:45-10:15pm

SUNDAY, OCTOBER 20

OMEGA RHO General & Executive Committee S - Eagle, 1st Floor 12noon-2pm
Information Systems Society S - Grand Ballroom C, 2nd Floor 6-7pm
Aviation Applications Section CC - 620, Level 6 6:15-7:15pm
Minority Issues Forum CC - 615, Level 6 6:15-7:15pm
TSL Board Meeting CC - 616, Level 6 6:15-7:15pm
DAS Council Meeting CC - 3A, Level 3 6:15-8:15pm
Multiple Criteria Decision-Making Section CC - 3B, Level 3 6:30-7:15pm
ENRE Section CC - 608, Level 6 6:30-7:30pm
Location Analysis Section CC - 618, Level 6 6:30-7:30pm
Optimization Society CC - 6A, Level 6 6:30-7:30pm
Data Mining Business Meeting CC - 203, Level 2 6:30-8pm
MSOM Society CC - 6B, Level 6 6:30-8pm
Simulation Society CC - 619, Level 6 6:30-8pm

MONDAY, OCTOBER 21

Indiana University Reception S - Madrona, 2nd Floor 5:15-7:15pm
Virginia Tech/NC State Reception S - Cirrus, 35th Floor, Pike St. Tower 5:30-7:30pm
Carnegie Mellon Reception S - Redwood, 2nd Floor 6-8pm
Behavioral Operations Management Section CC - 307, Level 3 6:15-7:15pm
Applied Probability Society CC - 2B, Level 2 6:15-7:45pm
Telecommunications & Network Analytics CC - 614, Level 6 6:15-7:45pm
Decision Analysis Society CC - 3A, Level 3 6:15-8:15pm
Analytics Society CC - 213, Level 2 6:30-7:30pm
Computing Society CC - 613, Level 6 6:30-7:30pm
E-Business Section Reception CC - 615, Level 6 6:30-7:30pm
Health Applications Society CC - 4C-4, Level 4 6:30-7:30pm
Revenue Management & Pricing Section CC - 4C-3, Level 4 6:30-7:30pm
Transportation Science & Logistics Society CC - 616, Level 6 6:30-7:30pm
Women in OR/MS Forum CC - 308, Level 3 6:30-7:30pm
Finance Section CC - 212, Level 2 6:30-7:45pm
Quality, Statistics, & Reliability Section CC - 4C-2, Level 6 6:30-8pm
Military & Security Society CC - 6B, Level 6 6:30-8:30pm
Northwestern University Reception S - Willow, 2nd Floor 6:30-9pm
Tech., Innovation Mgmt., & Entrepreneurship CC - 2A, Level 2 7-8pm
University of Texas-Austin Reception S - Diamond, 1st Floor 7-9pm

TUESDAY, OCTOBER 22

INFORMS Practice Section Business Meeting Hot Stove Society Bar (in Hotel Andra) 5-7pm
Pacific Northwest Chapter Business Meeting S - Ravenna B, 3rd Floor 6:30-7:30pm





TECHNOLOGY TUTORIALS (Hosted by Exhibitors)

All Technology Tutorials are located in the CC - Chelan 1, Level 2

SUNDAY, OCTOBER 20

Automation Anywhere | 8–8:45am
Increasing Operational Efficiency with Automation Anywhere's Digital Workforce Platform

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

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

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

Optimization Direct | 1:30–2:15pm
A DOCplex and ODHICPLEX Python Primer

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

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

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

MONDAY, OCTOBER 21

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

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

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

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

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

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

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

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

TUESDAY, OCTOBER 22

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

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

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

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

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

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

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

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

WEDNESDAY, OCTOBER 23

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

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

MemComputing, Inc. | 11–11:45am
MemComputing's MemCPU™ SaaS Application Tutorial

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

GameLab | 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 Multiarmed 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
Shie 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

TUTORIALS IN OPERATIONS RESEARCH



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)



MASTER TRACK | SUNDAY

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

TRK	ROOM	SA (8-9:30am)	SB (11am-12:30pm)	SC (1:30-3pm)	SD (4:30-6pm)
1	CC - Rm. 201	Data Mining	Data Mining	Data Mining	Data Mining
2	CC - Rm. 202	Data Mining	Data Mining	Data Mining	Data Mining
3	CC - Rm. 203	Data Mining	Data Mining	Data Mining	Data Mining
4	CC - Rm. 204	Data Mining	Data Mining	Data Mining	Data Mining
5	CC - Rm. 205	Data Mining	Data Mining	Disaster & Emergency	Data Mining
6	CC - Rm. 209	Data Mining	Data Mining	Data Mining	Data Mining
7	CC - Rm. 210	Data Mining	Data Mining	Data Mining	Data Mining
8	CC - Rm. 211	Applied Probability	AI & Machine Learning	AI & Machine Learning	AI & Machine Learning
9	CC - Rm. 212	Artificial Intelligence	Artificial Intelligence	Artificial Intelligence	Artificial Intelligence
10	CC - Rm. 213	Decision Analysis	Decision Analysis	Analytics	Analytics
11	CC - Rm. 214	Social Media Analytics	Social Media Analytics	Applied Probability	Applied Probability
12	CC - Rm. 2A	Applied Probability	Applied Probability	Applied Probability	Applied Probability
13	CC - Rm. 2B	Applied Probability	Applied Probability	Applied Probability	Applied Probability
14	CC - Rm. 302	MSOM	MSOM	MSOM	MSOM
15	CC - Rm. 303	MSOM	MSOM	MSOM	MSOM
16	CC - Rm. 304	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations
17	CC - Rm. 305	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations
18	CC - Rm. 306	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain
19	CC - Rm. 307	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain
20	CC - Rm. 308	Education	Education	Public Sector OR	Education
21	CC - Rm. 309	MSOM - iFORM	MSOM - iFORM	MSOM - iFORM	MSOM - iFORM
22	CC - Rm. 310	MSOM - Sustainable Operations	MSOM - Sustainable Operations	MSOM - Sustainable Operations	MSOM - Sustainable Operations
23	CC - Rm. 3A	Decision Analysis	Decision Analysis	Decision Analysis	Decision Analysis
24	CC - Rm. 3B	MCDM	MCDM	MCDM	MCDM
25	CC - Rm. 401	Interface of Marketing & Operations	Interface of Marketing & Operations	Interface of Marketing & Operations	Humanitarian Operations
26	CC - Rm. 4C-1	Service Science	Service Science	Service Science	Service Science
27	CC - Rm. 4C-2	Supply Chain	Service Science	Service Science	Service Science
28	CC - Rm. 4C-3	Service Science	Service Science	Service Science	Service Science
29	CC - Rm. 4C-4	Auction & Market Design	Auction & Market Design	Auction & Market Design	Auction & Market Design
29A	CC - Rm. 400	Healthcare	Healthcare	Supply Chain	Healthcare
30	CC - Rm. 6A	Military & Security	TutORial	TutORial	TutORial
31	CC - Rm. 6B	Military & Security	Military & Security	Military & Security	Military & Security
32	CC - Rm. 6C	Doing Good OR	George B. Dantzig	Undergraduate O.R. Prize	Undergraduate O.R. Prize
33	CC - Rm. 602	Opt., Computational Opt.	Opt., Computational Opt.	Opt., Computational Opt.	Opt., Computational Opt.
34	CC - Rm. 603	Opt., Global Opt.	Opt., Global Opt.	Supply Chain	Opt., Global Opt.
35	CC - Rm. 604	Opt., Integer & Discrete	Opt., Integer & Discrete	Opt., Integer & Discrete	Opt., Integer & Discrete
36	CC - Rm. 605	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
37	CC - Rm. 606	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
38	CC - Rm. 607	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
39	CC - Rm. 608	Public Sector OR	Railway Applications	Railway Applications	Railway Applications
40	CC - Rm. 609	Opt., Nonlinear Programming	Opt., Nonlinear Programming	Opt., Nonlinear Programming	Opt., Nonlinear Programming
41	CC - Rm. 610	Opt., Linear & Conic	Opt., Linear & Conic	Opt., Linear & Conic	Opt., Linear & Conic
42	CC - Rm. 611	Opt., Network Optimizations	Opt., Network Optimizations	Opt., Network Optimizations	Opt., Network Optimizations
43	CC - Rm. 612	Computing	Computing	Computing	Computing

MASTER TRACK | SUNDAY

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

TRK	ROOM	SA (8-9:30am)	SB (11am-12:30pm)	SC (1:30-3pm)	SD (4:30-6pm)
44	CC - Rm. 613	Computing	Computing	Computing	Computing
45	CC - Rm. 614	Opt., Nonlinear Programming	Opt., Nonlinear Programming	Opt., Nonlinear Programming	Opt., Nonlinear Programming
46	CC - Rm. 615	TSL - Intelligent Transportation	TSL - Intelligent Transportation	TSL - Intelligent Transportation	TSL - Intelligent Transportation
47	CC - Rm. 616	Transportation, Operations	Transportation, Operations	Healthcare	Vehicle Routing
48	CC - Rm. 617	TSL - Freight Transportation	TSL - Freight Transportation	TSL - Freight Transportation	TSL - Freight Transportation
49	CC - Rm. 618	TSL - Urban Transportation	TSL - Urban Transportation	TSL - Urban Transportation	TSL - Urban Transportation
50	CC - Rm. 619	TSL - Facility Logistics	TSL - Facility Logistics	TSL - Facility Logistics	TSL - Facility Logistics
51	CC - Rm. 620	Aviation Applications	Aviation Applications	Aviation Applications	Aviation Applications
52	CC - Skagit 1	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
53	CC - Skagit 2	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
54	CC - Skagit 3	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
55	CC - Skagit 4	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
56	CC - Skagit 5	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
57	CC - Yakima 1	Public Sector OR	Public Sector OR	Public Sector OR	Public Sector OR
58	CC - Yakima 2	Policy & Government	Policy & Government	Policy & Government	Policy & Government
58A	CC - Chelan 1	Technology Tutorial	Technology Tutorial	Technology Tutorial	Technology Tutorial
59	CC - Chelan 2	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
59A	CC - Chelan 3	Disaster & Emergency	Disaster & Emergency	Optimization	Risk Analysis
60	CC - Chelan 4	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability Comp.
61	CC - Chelan 5	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
62	CC - Tahoma 1	Health Applications	Health Applications	Health Applications	Health Applications
63	CC - Tahoma 2	Health Applications	Health Applications	Health Applications	Health Applications
64	CC - Tahoma 3	Health Applications	Health Applications	Health Applications	Health Applications
65	CC - Tahoma 4	Health Applications	Health Applications	Health Applications	Health Applications
66	CC - Tahoma 5	Health Applications	Health Applications	Health Applications	Personalized Health
67	S - Virginia	Case Competition	Nicholson Student Competition	Nicholson Student Competition	CS & OR Interface
68	S - University	Location Analysis	Location Analysis	Location Analysis	SOLA Best Paper
69	S - Seneca	MSOM - Healthcare Operations	MSOM - Healthcare Operations	MSOM - Healthcare Operations	MSOM - Healthcare Operations
70	S - Jefferson A	E-Business	E-Business	E-Business	E-Business
71	S - Jefferson B	Supply Chain	Behavioral Operations	Telecommunications & Network	Behavioral Operations
72	S - Columbia	Minority Issues	Minority Issues	Diversity, Equity, & Inclusion	Information Systems
73	S - Boren	Finance	Finance	Finance	Finance
74	S - Capitol Hill	Supply Chain	JFIG	JFIG	JFIG
77	S - Fremont	Project Management & Scheduling	Project Management & Scheduling	Project Management & Scheduling	Project Management & Scheduling
78	S - Greenwood	New Product Development	New Product Development	New Product Development	New Product Development
79	S - Issaquah A	Sustainable Growth	Sustainable Growth	Sustainable Growth	Sustainable Growth
80	S - Issaquah B	TIME	TIME	TIME	TIME
81	S - Kirkland	ENRE - Forestry	ENRE - Forestry	ENRE - Forestry	ENRE - Forestry
82	S - Leschi	ENRE - Env. & Sustain	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity
83	S - Medina	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity
84	S - Ravenna A	ENRE - Energy	ENRE - Energy	ENRE - Energy	ENRE - Energy
85	S - Ravenna B	ENRE - Energy	ENRE - Energy	ENRE - Energy	ENRE - Energy
86	S - Ravenna C	ENRE - Energy	ENRE - Energy	ENRE - Energy	ENRE - Energy

MASTER TRACK | MONDAY

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

TRK	ROOM	MA (8-9:30am)	MB (11am-12:30pm)	MC (1:30-3pm)	MD (4:30-6pm)
1	CC - Rm. 201	Data Mining	Data Mining	Data Mining	Data Mining
2	CC - Rm. 202	Data Mining	Data Mining	Data Mining	Data Mining
3	CC - Rm. 203	Data Mining	Data Mining	Data Mining	Data Mining
4	CC - Rm. 204	Data Mining	Data Mining	Data Mining	Data Mining
5	CC - Rm. 205	Data Mining	Data Mining	Data Mining	Data Mining
6	CC - Rm. 209	Data Mining	Data Mining	Data Mining	Data Mining
7	CC - Rm. 210	Finance	Data Mining	Data Mining	Data Mining
8	CC - Rm. 211	AI & Machine Learning	AI & Machine Learning	AI & Machine Learning	AI & Machine Learning
9	CC - Rm. 212	Artificial Intelligence	Artificial Intelligence	Artificial Intelligence	Artificial Intelligence
10	CC - Rm. 213	Analytics	Social Media Analytics	Analytics	Analytics
11	CC - Rm. 214	Applied Probability	Applied Probability	Applied Probability	Applied Probability
12	CC - Rm. 2A	Applied Probability	Applied Probability	Applied Probability	Applied Probability
13	CC - Rm. 2B	Applied Probability	Applied Probability	Applied Probability	Applied Probability
14	CC - Rm. 302	MSOM	MSOM	MSOM	MSOM
15	CC - Rm. 303	MSOM	MSOM	MSOM	NSF
16	CC - Rm. 304	MSOM - Service Operations	MSOM	MSOM - Service Operations	MSOM - Service Operations
17	CC - Rm. 305	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations
18	CC - Rm. 306	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain
19	CC - Rm. 307	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain
20	CC - Rm. 308	Education	Education	Education	Education
21	CC - Rm. 309	MSOM - iFORM	MSOM - iFORM	MSOM - iFORM	MSOM - iFORM
22	CC - Rm. 310	MSOM - Sustainable Operations	MSOM - Sustainable Operations	MSOM - Sustainable Operations	MSOM - Sustainable Operations
23	CC - Rm. 3A	Decision Analysis	Decision Analysis	Decision Analysis	Decision Analysis
24	CC - Rm. 3B	MCDM	MCDM	MCDM	MCDM
25	CC - Rm. 401	Humanitarian Operations	Humanitarian Operations	Humanitarian Operations	Humanitarian Operations
26	CC - Rm. 4C-1	Service Science	Service Science	Service Science	Service Science
27	CC - Rm. 4C-2	Service Science	Service Science	Service Science	Service Science
28	CC - Rm. 4C-3	Service Science	Service Science	Service Science	Service Science
29	CC - Rm. 4C-4	Auction & Market Design	Auction & Market Design	Auction & Market Design	Auction & Market Design
29A	CC - Rm. 400	Healthcare	Finance	Finance	Healthcare
30	CC - Rm. 6A	TutORial	TutORial	TutORial	TutORial
31	CC - Rm. 6B	Military & Security	Military & Security	Military & Security	Military & Security
32	CC - Rm. 6C	Wagner Competition	Wagner Competition	Healthcare	Operations Management
33	CC - Rm. 602	Financial Engineering	Opt., Comp. Opt. & Software	Opt., Comp. Opt. & Software	Opt., Comp. Opt. & Software
34	CC - Rm. 603	Opt., Global Optimization	Opt., Global Optimization	Opt., Global Optimization	Opt., Global Optimization
35	CC - Rm. 604	Opt., Integer & Discrete	Opt., Integer & Discrete	Opt., Integer & Discrete	Opt., Integer & Discrete
36	CC - Rm. 605	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
37	CC - Rm. 606	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
38	CC - Rm. 607	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
39	CC - Rm. 608	Railway Applications	Railway Applications	Railway Applications	Railway Applications
40	CC - Rm. 609	Opt., Nonlinear Programming	Opt., Nonlinear Programming	Opt., Nonlinear Programming	Opt., Nonlinear Programming
41	CC - Rm. 610	Opt., Linear & Conic	Opt., Linear & Conic	Opt., Linear & Conic	Opt., Linear & Conic
42	CC - Rm. 611	Opt., Network Optimization	Opt., Network Optimization	Opt., Network Optimization	Opt., Network Optimization
43	CC - Rm. 612	Computing	Computing	Computing	Computing
44	CC - Rm. 613	MSOM - Health Operations	Computing	Computing	Computing
45	CC - Rm. 614	Opt., Nonlinear Programming	Opt., Nonlinear Programming	Opt., Nonlinear Programming	Opt., Nonlinear Programming

MASTER TRACK | MONDAY

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

TRK	ROOM	MA (8-9:30am)	MB (11am-12:30pm)	MC (1:30-3pm)	MD (4:30-6pm)
46	CC - Rm. 615	TSL - Intelligent Transportation	TSL - Intelligent Transportation	TSL - Intelligent Transportation	TSL - Intelligent Transportation
47	CC - Rm. 616	Vehicle Routing	TSL - Air	TSL - Air	Information Systems
48	CC - Rm. 617	TSL - Urban Transportation	TSL - Freight Transportation	TSL - Healthcare	MSOM - Healthcare
49	CC - Rm. 618	TSL - Urban Transportation	TSL - Urban Transportation	TSL - Urban Transportation	TSL - Urban Transportation
50	CC - Rm. 619	TSL - Facility Logistics	TSL - Facility Logistics	TSL - Facility Logistics	TSL - Facility Logistics
51	CC - Rm. 620	Aviation Applications	Aviation Applications	Aviation Applications	Aviation Applications
52	CC - Skagit 1	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
53	CC - Skagit 2	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
54	CC - Skagit 3	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
55	CC - Skagit 4	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
56	CC - Skagit 5	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Public Sector OR	Public Sector OR
57	CC - Yakima 1	Location & Logistics	Public Sector OR	Public Sector OR	Public Sector OR
58	CC - Yakima 2	Policy & Government	Policy & Government	Policy & Government	Policy & Government
58A	CC - Chelan 1	Technology Tutorial	Technology Tutorial	Technology Tutorial	Technology Tutorial
59	CC - Chelan 2	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
59A	CC - Chelan 3	Data Mining	Finance	Finance	Finance
60	CC - Chelan 4	QSR Competition	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
61	CC - Chelan 5	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
62	CC - Tahoma 1	Health Applications	Health Applications	Health Applications	Health Applications
63	CC - Tahoma 2	Health Applications	Health Applications	Health Applications	Health Applications
64	CC - Tahoma 3	Health Applications	Health Applications	Health Applications	Health Applications
65	CC - Tahoma 4	Health Applications	Health Applications	Health Applications	Health Applications
66	CC - Tahoma 5	Personalized Health	Personalized Health	Personalized Health	Personalized Health
67	S - Virginia	Simulation	MSOM - Healthcare	Simulation	Simulation
68	S - University	Economy & Crowdsourcing	Economy & Crowdsourcing	Economy & Crowdsourcing	Economy & Crowdsourcing
69	S - Seneca	SpORts	SpORts	SpORts	SpORts
70	S - Jefferson A	E-Business	E-Business	E-Business	E-Business
71	S - Jefferson B	Behavioral Operations	Behavioral Operations	Behavioral Operations	Behavioral Operations
72	S - Columbia	Information Systems	Information Systems	Information Systems	Information Systems
73	S - Boren	Information Systems	Information Systems	Practice Curated	Practice Curated
74	S - Capitol Hill	Location Analysis	WORMS	WORMS	JFIG
77	S - Fremont	Project Management & Scheduling	Project Management & Scheduling	Project Management & Scheduling	Project Management & Scheduling
78	S - Greenwood	New Product Development	New Product Development	Productivity, Effic. & Data Envel.	Productivity, Effic. & Data Envel.
79	S - Issaquah A	Sustainable Growth	Agriculture	Agriculture	Agriculture
80	S - Issaquah B	TIME	TIME	TIME	TIME
81	S - Kirkland	ENRE - Forestry	ENRE - Petrochemicals	ENRE - Petrochemicals	ENRE - Petrochemicals
82	S - Leschi	ENRE - Electricity	ENRE - Env. & Sustainability	ENRE - Env. & Sustainability	ENRE - Env. & Sustainability
83	S - Medina	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity
84	S - Ravenna A	ENRE - Energy	ENRE - Energy	ENRE - Energy	ENRE - Energy
85	S - Ravenna B	ENRE - Energy	Telecommunications & Network	ENRE - Energy	ENRE - Energy
86	S - Ravenna C	ENRE - Energy	ENRE - Energy	ENRE - Energy	ENRE - Energy
92	S - Grand A	Supply Chain	Supply Chain	Supply Chain	Supply Chain
93	S - Grand B	Information Systems	Information Systems	Information Systems	Minority Issues
94	S - Grand C	Operations Management	Industry Job Panel	Academic Job Panel	Location Analysis
95	S - Grand D	Minority Issues	Diversity, Equity, & Inclusion	KINFORMS	Economics

MASTER TRACK | TUESDAY

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

TRK	ROOM	TA (7:30–9am)	TB (10:30am–12noon)	TC (12:05–1:35pm)	TD (2–3:30pm)	TE (4:35–6:05pm)
1	CC - Rm. 201	Data Mining	Data Mining	Data Mining	Data Mining	Data Mining
2	CC - Rm. 202	Data Mining	Data Mining	Data Mining	Data Mining	Data Mining
3	CC - Rm. 203	Data Mining	Data Mining	Data Mining	Data Mining	Data Mining
4	CC - Rm. 204	Data Mining	Data Mining	Data Mining	Data Mining	Data Mining
5	CC - Rm. 205	Data Mining	Data Mining	Data Mining	Data Mining	Data Mining
6	CC - Rm. 209	Data Mining	Data Mining	Data Mining	Data Mining	Data Mining
7	CC - Rm. 210	Data Mining	Data Mining	Data Mining	Data Mining	Data Mining
8	CC - Rm. 211	AI & Machine Learning	AI & Machine Learning	AI & Machine Learning	Artificial Intelligence	Artificial Intelligence
9	CC - Rm. 212	Artificial Intelligence	Artificial Intelligence	Artificial Intelligence	Artificial Intelligence	Artificial Intelligence
10	CC - Rm. 213	Analytics	Analytics	Social Media	Social Media	Social Media
11	CC - Rm. 214	Applied Probability	Applied Probability	Applied Probability	Applied Probability	Applied Probability
12	CC - Rm. 2A	Applied Probability	Applied Probability	Applied Probability	Applied Probability	Applied Probability
13	CC - Rm. 2B	Applied Probability	Applied Probability	Applied Probability	Applied Probability	Applied Probability
14	CC - Rm. 302	MSOM	MSOM	MSOM	MSOM	MSOM
15	CC - Rm. 303	MSOM - Service Operations	Group Decision	Group Decision	NSF	MSOM
16	CC - Rm. 304	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations
17	CC - Rm. 305	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations
18	CC - Rm. 306	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain
19	CC - Rm. 307	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain	Behavioral Operations
20	CC - Rm. 308	Education	Education	Education	Education	Education
21	CC - Rm. 309	MSOM - iFORM	MSOM - iFORM	MSOM - iFORM	MSOM - iFORM	MSOM - iFORM
22	CC - Rm. 310	MSOM - Sustainable Oper.	MSOM - Sustainable Oper.	MSOM - Sustainable Oper.	MSOM - Sustainable Oper.	MSOM - Sustainable Oper.
23	CC - Rm. 3A	Decision Analysis	Decision Analysis	Decision Analysis	Decision Analysis	Decision Analysis
24	CC - Rm. 3B	MCDM	Decision Analysis	Decision Analysis	Decision Analysis	Decision Analysis
25	CC - Rm. 401	Humanitarian Oper.	Auction & Market Design	Practice Curated	Practice Curated	Revenue Management
26	CC - Rm. 4C-1	Service Science	Service Science	Service Science	Service Science	Service Science
27	CC - Rm. 4C-2	Service Science	Service Science	Service Science	Portfolio Analytics	Service Science
28	CC - Rm. 4C-3	Service Science	Service Science	Service Science	Service Science	Service Science
29	CC - Rm. 4C-4	Auction & Market Design	Auction & Market Design	Auction & Market Design	Auction & Market Design	Auction & Market Design
29A	CC - Rm. 400	MSOM - Service Operations	Supply Chain	Forecasting	Modeling & Optimization	
30	CC - Rm. 6A	TutORial	TutORial	TutORial	TutORial	Diversity, Equity, & Inclusion
31	CC - Rm. 6B	Military & Security	Military & Security	Military & Security	Military & Security	Military & Security
32	CC - Rm. 6C	No Session	INFORMS Prize	Professional Develop.	Biotechnology/Bioinformatics	Dynamic Programming
33	CC - Rm. 602	Opt., Comp. Opt. & Software	Opt., Comp. Opt. & Software	Opt., Comp. Opt. & Software	Opt., Comp. Opt. & Software	Opt., Comp. Opt. & Software
34	CC - Rm. 603	Data Mining	Opt., Integer & Discrete	Opt., Transportation	Constraint Program. Opt.	Optimization & Aviation
35	CC - Rm. 604	Opt., Integer & Discrete	Opt., Integer & Discrete	Opt., Integer & Discrete	Opt., Integer & Discrete	Opt., Integer & Discrete
36	CC - Rm. 605	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
37	CC - Rm. 606	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
38	CC - Rm. 607	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
39	CC - Rm. 608	Railway Applications	Railway Applications	Transportation Operations	Railway Applications	Transportation
40	CC - Rm. 609	Opt., Nonlinear Prog.	Supply Chain	Opt., Nonlinear Progr.	Opt., Nonlinear Progr.	Optimization
41	CC - Rm. 610	Opt., Linear & Conic	Opt., Linear & Conic	Opt., Network Opt.	Opt., Network Opt.	Opt., Network Opt.
42	CC - Rm. 611	Opt., Network Opt.	Opt., Network Opt.	Opt., Network Opt.	Opt., Network Opt.	Opt., Network Opt.
43	CC - Rm. 612	Computing	Computing	Computing	Computing	Computing
44	CC - Rm. 613	Computing	Computing	Computing	Computing	Computing
45	CC - Rm. 614	Opt., Nonlinear Prog.	Opt., Nonlinear Prog.	Opt., Nonlinear Prog.	Opt., Nonlinear Prog.	Opt., Nonlinear Prog.
46	CC - Rm. 615	TSL - Intelligent Trans.	TSL - Intelligent Trans.	TSL - Intelligent Trans.	TSL - Intelligent Trans.	TSL - Intelligent Trans.
47	CC - Rm. 616	TSL	TSL	TSL	TSL	TSL
48	CC - Rm. 617	TSL - Freight	TSL - Freight	TSL - Freight	TSL - Freight	TSL - Freight

MASTER TRACK | TUESDAY

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

TRK	ROOM	TA (7:30–9am)	TB (10:30am–12noon)	TC (12:05–1:35pm)	TD (2–3:30pm)	TE (4:35–6:05pm)
49	CC - Rm. 618	TSL - Urban Trans.	TSL - Urban Trans.	TSL - Urban Trans.	TSL - Urban Trans.	TSL - Urban Trans.
50	CC - Rm. 619	TSL - Facility Logistics	Econ. & Transport. Oper.	Transportation	Transportation	Transportation
51	CC - Rm. 620	Aviation Applications	Aviation Applications	Aviation Applications	Aviation Applications	Aviation Applications
52	CC - Skagit 1	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
53	CC - Skagit 2	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
54	CC - Skagit 3	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
55	CC - Skagit 4	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
56	CC - Skagit 5	Business Applications	Public Sector OR	Public Sector OR	Marketing	Marketing
57	CC - Yakima 1	Public Sector OR	Public Sector OR	Public Sector OR	Public Sector OR	Logistics
58	CC - Yakima 2	Public Sector OR	Public Sector OR	Public Sector OR	Public Sector OR	Public Sector OR
58A	CC - Chelan 1	Technology Tutorial	Technology Tutorial	Technology Tutorial	Technology Tutorial	Technology Tutorial
59	CC - Chelan 2	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
60	CC - Chelan 4	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
61	CC - Chelan 5	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
62	CC - Tahoma 1	Health Applications	Health Applications	Health Applications	Health Applications	Health Applications
63	CC - Tahoma 2	Health Applications	Health Applications	Health Applications	Health Applications	Health Applications
64	CC - Tahoma 3	Health Applications	Health Applications	Health Applications	Health Applications	Health Applications
65	CC - Tahoma 4	Health Applications	Health Applications	Health Applications	Health Applications	Health Applications
66	CC - Tahoma 5	Personalized Health	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
67	S - Virginia	Simulation	Simulation	Simulation	Simulation	Simulation
68	S - University	Economy & Crowdsourcing	Economy & Crowdsourcing	Economy & Crowdsourcing	Economy & Crowdsourcing	Economy & Crowdsourcing
69	S - Seneca	SpORts	Telecom. & Network	Stochastic Processes	Telecom. & Network	Telecom. & Network
70	S - Jefferson A	E-Business	E-Business	E-Business	E-Business	Finance & Entrepreneurship
71	S - Jefferson B	Behavioral Operations	Behavioral Operations	Behavioral Operations	Behavioral Operations	Behavioral Operations
72	S - Columbia	Information Systems	Information Systems	Information Systems	Information Systems	Information Systems
73	S - Boren	Practice Curated	Practice Curated	Practice Curated	Practice Curated	Practice Curated
74	S - Capitol Hill	Location Analysis	JFIG	JFIG	Healthcare	No Session
75	S - Met. Ball A	Flash Session	Flash Session	Flash Session	Flash Session	Flash Session
76	S - Met. Ball B	Operations Management	Operations Management	Operations Management	Operations Management	Operations Management
77	S - Fremont	Scheduling	Scheduling	Scheduling	Scheduling	Scheduling
78	S - Greenwood	Prod., Effic. & Data Envel.	Prod., Effic. & Data Envel.	Prod., Effic. & Data Envel.	Prod., Effic. & Data Envel.	Prod., Effic. & Data Envel.
79	S - Issaquah A	Agriculture	Agriculture	Disruption Management	Energy	Energy
80	S - Issaquah B	TIME	TIME	TIME	TIME	Computing
81	S - Kirkland	ENRE - Petrochemicals	ENRE - Petrochemicals	ENRE - Petrochemicals	ENRE - Petrochemicals	ENRE - Mining
82	S - Leschi	ENRE - Env. & Sustainability	ENRE - Env. & Sustainability	ENRE - Env. & Sustainability	ENRE - Env. & Sustainability	ENRE - Env. & Sustainability
83	S - Medina	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity
84	S - Ravenna A	ENRE - Energy	ENRE - Energy	ENRE - Energy	ENRE - Energy	ENRE - Energy
85	S - Ravenna B	ENRE - Energy	Finance	ENRE - Energy	ENRE - Energy	ENRE - Energy
86	S - Ravenna C	Advanced Manufacturing	Advanced Manufacturing	Advanced Manufacturing	Advanced Manufacturing	Advanced Manufacturing
87	S - Madrona	No Session	Finance	Simulation	No Session	Healthcare
88	S - Cedar A	Healthcare	Healthcare	Healthcare	Healthcare	Healthcare
89	S - Cedar B	Finance	Finance	Finance	Finance	Finance
90	S - Redwood A	Location Analysis	Location Analysis	Logistics	Logistics	MSOM - Healthcare
91	S - Redwood B	MSOM - Healthcare	MSOM - Healthcare	MSOM - Healthcare	MSOM - Healthcare	MSOM - Healthcare
93	S - Grand B	Information Systems	Finance	No Session	Operations/Economics Inter.	No Session
94	S - Grand C	MSOM - Healthcare	MSOM - Healthcare	MSOM - Healthcare	Risk Analysis	No Session
95	S - Grand D	Minority Issues	Minority Issues	Minority Issues	Academic Job Search	No Session
96	S - Willow A	Data Mining	Diversity, Equity, & Inclusion	Service Science	Data Mining	Data Mining
97	S - Willow B	Supply Chain	Data Mining	Supply Chain	Supply Chain	Supply Chain

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	Data Mining
2	CC - Rm. 202	Data Mining	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	Data Mining
5	CC - Rm. 205	Data Mining	Data Mining	Data Mining	Data Mining
6	CC - Rm. 209	Data Mining	Data Mining	No Session	Data Mining
7	CC - Rm. 210	Data Mining	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
11	CC - Rm. 214	Applied Probability	Applied Probability	Applied Probability	Applied Probability
12	CC - Rm. 2A	Applied Probability	Applied Probability	Applied Probability	Applied Probability
13	CC - Rm. 2B	Forecasting	Applied Probability	Applied Probability	Decision Analysis
14	CC - Rm. 302	MSOM	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	MSOM - Service Operations
17	CC - Rm. 305	MSOM - Service Operations	MSOM - Service Operations	MSOM - Service Operations	No Session
18	CC - Rm. 306	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain	MSOM - Supply Chain
19	CC - Rm. 307	Behavioral Operations	Behavioral Operations	Behavioral Operations	Procurement & Purchasing
20	CC - Rm. 308	Education	Education	Education	Service Science & DA
21	CC - Rm. 309	Minority Issues	Finance		Forecasting
22	CC - Rm. 310	MSOM - Sustainable Operations	MSOM - Sustainable Operations	MSOM - Sustainable Operations	Supply Chain
23	CC - Rm. 3A	Decision Analysis	Decision Analysis	Decision Analysis	No Session
24	CC - Rm. 3B	Decision Analysis	Decision Analysis	Decision Analysis	Decision Analysis
25	CC - Rm. 401	Revenue Management	Revenue Management	Revenue Management	Operations & RM
26	CC - Rm. 4C-1	Service Science	Service Science	Service Science	Service Science
27	CC - Rm. 4C-2	Service Science	Service Science	Service Science	Service Science
28	CC - Rm. 4C-3	Service Science	Service Science	Game Theory	
29	CC - Rm. 4C-4	Auction & Market Design	Auction & Market Design	Auction & Market Design	Auction & Market Design
30	CC - Rm. 6A	Opt., Network	Decision Support	Retail Management	Reliability & Retail Mgmt.
31	CC - Rm. 6B	Military & Security	Military & Security	Military & Security	Military & Security
32	CC - Rm. 6C	Semiconductor Industry & Manufacturing	Spatial Analysis	Strategy/Strategic Planning	Technology Management & Global Issues
33	CC - Rm. 602	Opt., Comp. Opt. & Software	Opt., Comp. Opt. & Software	Intelligent Agents & Systems	AI & Disaster Mgmt.
34	CC - Rm. 603	Optimization & Sustainability	Optimization & Planning	Optimization, Robust	Optimization, Robust
35	CC - Rm. 604	Opt., Integer & Discrete	Opt., Integer & Discrete	Opt., Integer & Discrete	Opt., Integer & Discrete
36	CC - Rm. 605	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
37	CC - Rm. 606	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty	Opt., Opt. Under Uncertainty
38	CC - Rm. 607	Opt., Stochastic	Opt., Stochastic	Opt., Stochastic	Opt., Linear Prog. & Methodology
39	CC - Rm. 608	Heuristic Programming	Neural Networks & Traffic	Vehicle Route & Homeland Security	Telecom. & Transportation
40	CC - Rm. 609	Opt., Nonlinear Programming	Opt., Integer Programming	Opt., Integer Programming	Optimization, Metaheuristics
41	CC - Rm. 610	Opt., Network Optimization	Opt., Network Optimization	Opt., Network Optimization	Computing
42	CC - Rm. 611	Opt., Network Optimization	Opt., Network Optimization	Opt., Network Optimization	Opt., Network Optimization
43	CC - Rm. 612	Computing	Computing	Computing	Computing
44	CC - Rm. 613	Computing	Computing	Computing	Computing

MASTER TRACK | WEDNESDAY

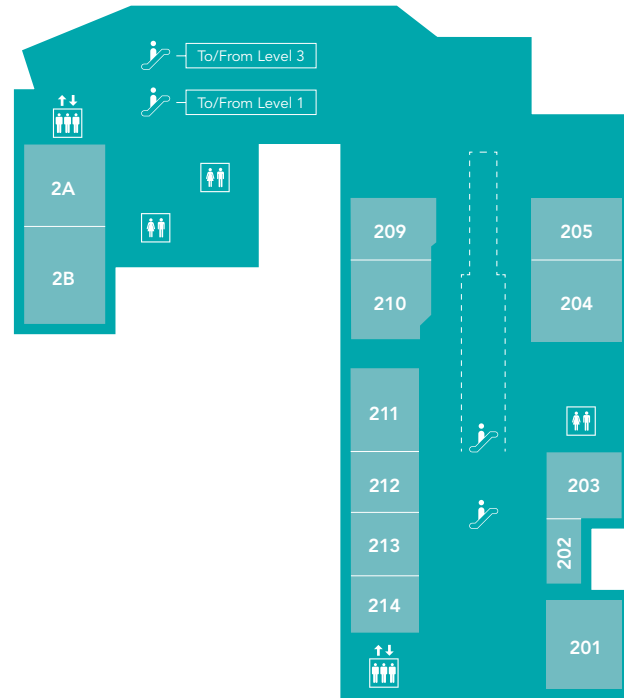
CC - Washington State Convention Center | S - Sheraton Grand Seattle Hotel

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	Opt., Nonlinear Programming	Opt., Nonlinear Programming
46	CC - Rm. 615	TSL - Intelligent Transportation	TSL - Intelligent Transportation	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	TSL - Intelligent Transportation
49	CC - Rm. 618	Inventory Management	Inventory Management	Facility Location	Facilities Planning & Project Mgmt.
50	CC - Rm. 619	Transportation	Transportation	Bayesian Approach	Network Opt. & Freight Trans.
51	CC - Rm. 620	Aviation Applications	Aviation Applications	Aviation Applications	Aviation Applications
52	CC - Skagit 1	Revenue Mgmt. & Pricing	Financial Engineering	Forecasting	Revenue Mgmt. & Pricing
53	CC - Skagit 2	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
54	CC - Skagit 3	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
55	CC - Skagit 4	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing	Revenue Mgmt. & Pricing
56	CC - Skagit 5	Marketing	Marketing	Operations Mgmt./Marketing	Operations Mgmt./Marketing
57	CC - Yakima 1	Public Sector OR	Public Sector OR	Public Sector OR	Public Sector OR
58	CC - Yakima 2	Public Sector OR	Public Sector OR	Big Data	Big Data
58A	CC - Chelan 1	Technology Tutorials	Technology Tutorials	Technology Tutorials	No Session
59	CC - Chelan 2	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
59A	CC - Chelan 3	Applied Probability	Data Mining	No Session	Data Mining
60	CC - Chelan 4	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
61	CC - Chelan 5	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability	Quality, Statistics & Reliability
62	CC - Tahoma 1	Health Applications	Health Applications	Health Applications	Health Applications
63	CC - Tahoma 2	Health Applications	Health Applications	Health Applications	Health Applications
64	CC - Tahoma 3	Health Applications	Health Applications	Health Applications	Health Applications
65	CC - Tahoma 4	Health Applications	Health Applications	Health Applications	Health Applications
66	CC - Tahoma 5	Quality, Statistics & Reliability	Reliability	Reliability	Reliability
67	S - Virginia	Supply Chain	Opt., Combinatorial	Healthcare	Opt., Combinatorial
68	S - University	Manufacturing	Manufacturing	Green Manufacturing/Finance	Manufacturing & Neural Networks
69	S - Seneca	Telecommunications & Network	Telecommunications & Network	Supply Chain	Telecommunications & Network
70	S - Jefferson A	Finance Theory & Empirics	Queueing Models	Cost Analysis/ Inventory Manage.	Accounting & Vehicle Routing
71	S - Jefferson B	Behavioral Operations	Behavioral Operations	Information Systems	Operations/Sustainability
72	S - Columbia	Information Systems	Information Systems	Information Systems	Information Systems
73	S - Boren	Practice Curated	Practice Curated	Practice Curated	Practice Curated
74	S - Capitol Hill	Auctions/Mechanism Design	Auctions & Remanufacturing	No Session	Game Theory
75	S - Met. Ball A	Flash Session	Flash Session	Flash Session	Flash Session
76	S - Met. Ball B	Operations Sustainability	Operations Management	Decision Support Systems	Bayesian Approach & Retail Mgmt.
77	S - Fremont	Production & Scheduling	Innovation/Entrepreneurship	Nonprofit & New Product Dev.	New Product Development
78	S - Greenwood	Big Data	Big Data	Big Data	Big Data
79	S - Issaquah A	Energy	Energy	Energy	Energy
80	S - Issaquah B	Simulation & Optimization	Simulation & Optimization	Simulation	Simulation
81	S - Kirkland	Sustainability	Sustainability	Rscr. Allocation & Climate Change	Process Engineering & Energy
82	S - Leschi	ENRE - Env. & Sustainability	ENRE - Env. & Sustainability	ENRE - Env. & Sustainability	ENRE - Env. & Sustainability
83	S - Medina	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity	ENRE - Electricity
84	S - Ravenna A	ENRE - Energy	ENRE - Energy	ENRE - Energy	ENRE - Energy
85	S - Ravenna B	Data Mining	ENRE - Energy	ENRE - Energy	ENRE - Energy
86	S - Ravenna C	Advanced Manufacturing	E-Business/Commerce	E-Business Commerce	E-Business

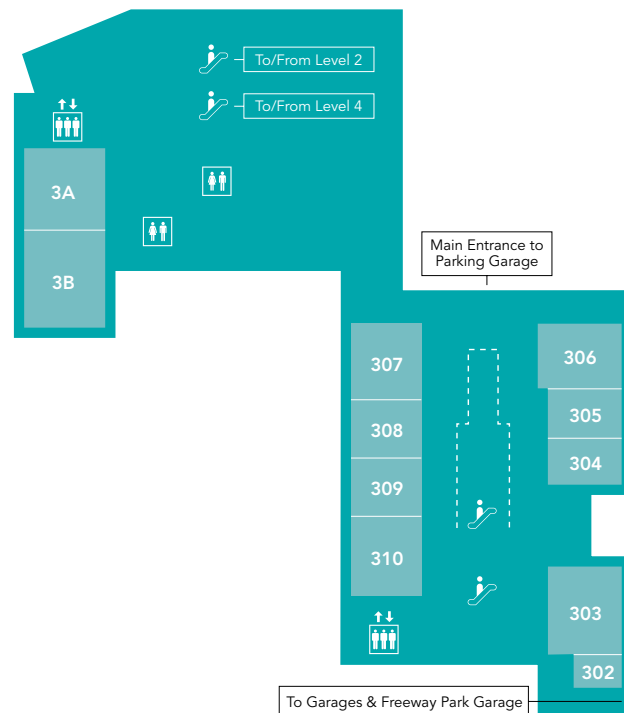


CONFERENCE MAPS - WASHINGTON STATE CONVENTION CENTER

Level 2

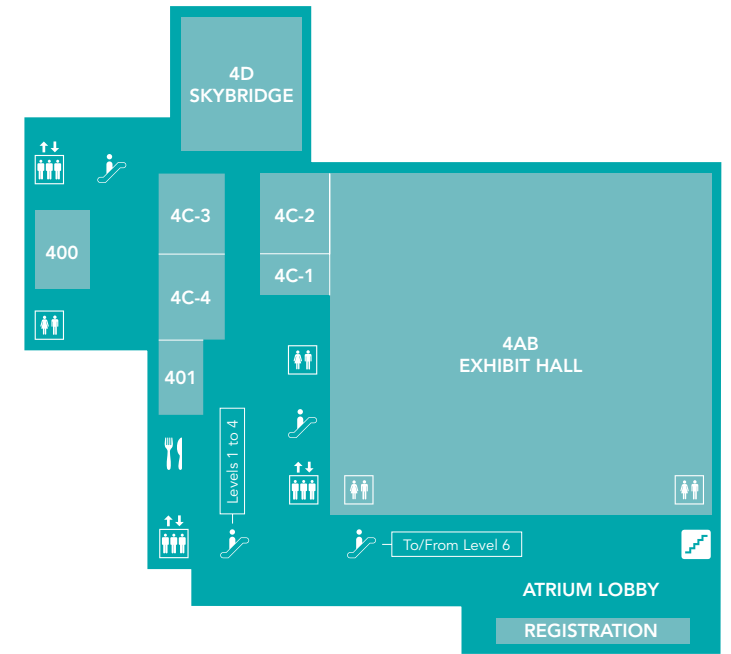


Level 3

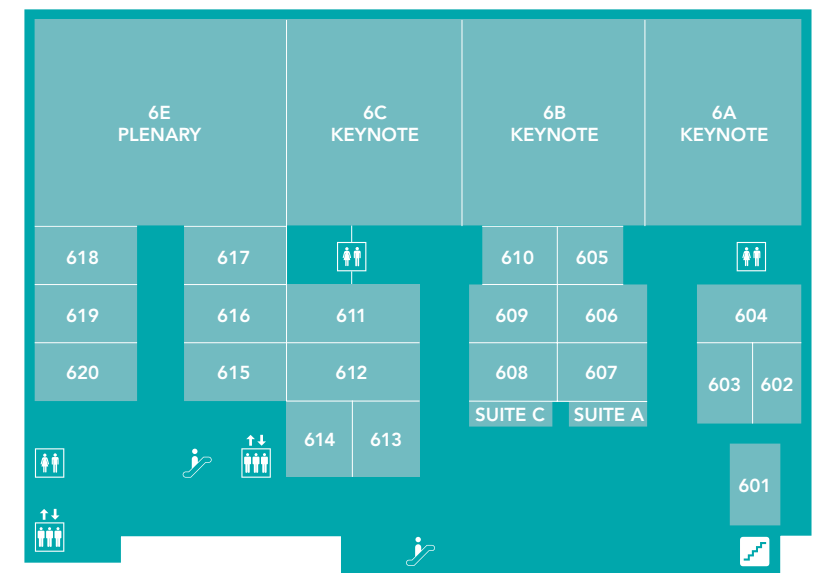


CONFERENCE MAPS - WASHINGTON STATE CONVENTION CENTER

Level 4



Level 6



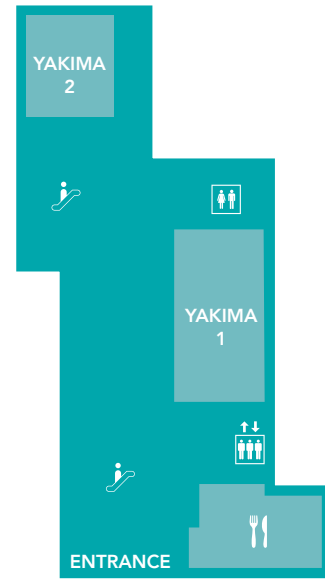


CONFERENCE MAPS - THE CONFERENCE CENTER

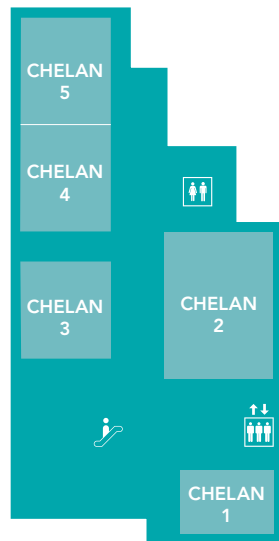
Skagit Lower Level



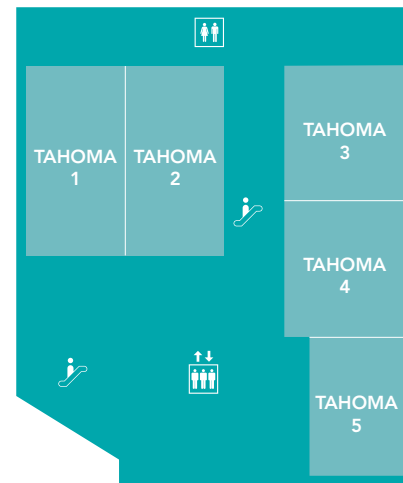
Yakima Level 1



Chelan Level 2



Tahoma Level 3

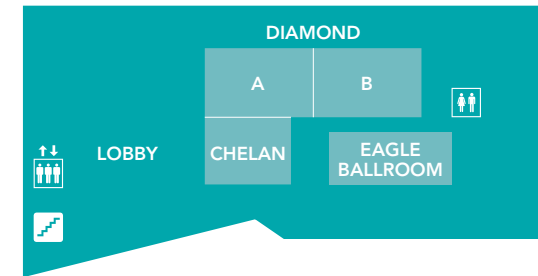


The Conference Center rooms are located across from the Washington State Convention Center, at the corner of Pike Street and 8th Avenue.

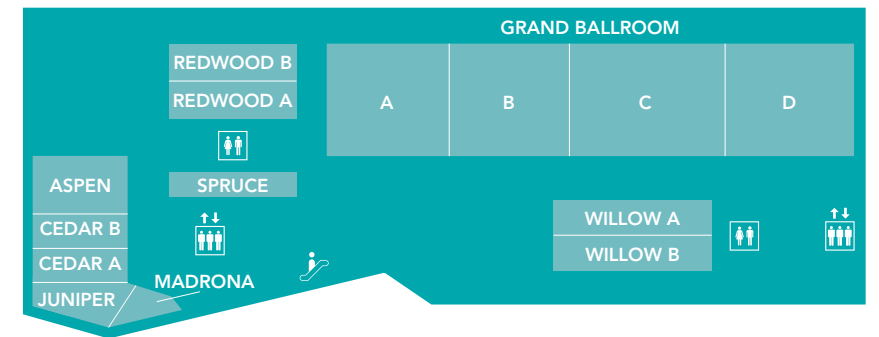


CONFERENCE MAPS - SHERATON GRAND SEATTLE

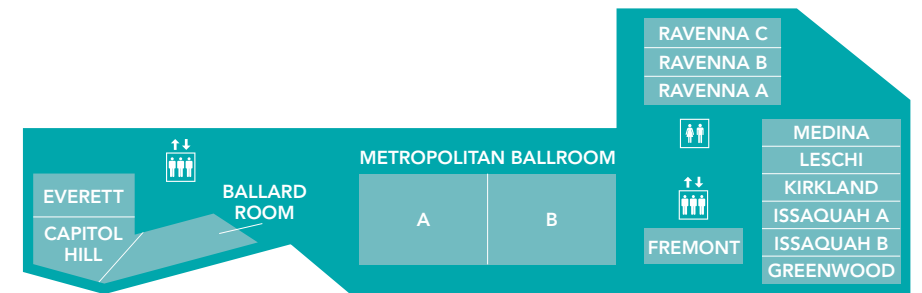
1st Floor



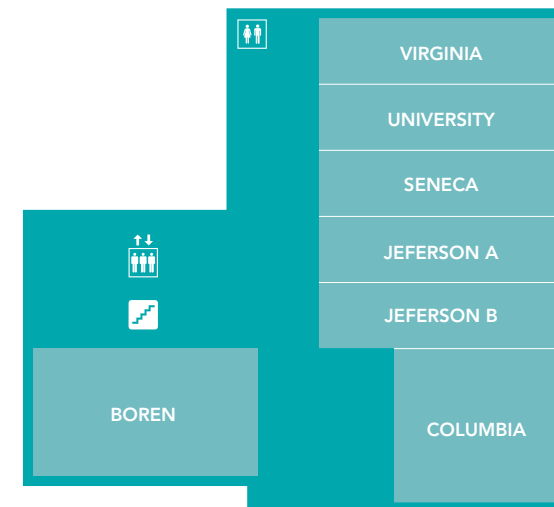
2nd Floor



3rd Floor



4th Floor





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 | CC - 6E, Level 6

Seeking Perfection: Reflections on the Journey



Introduction

Ramayya Krishnan,
Carnegie Mellon University
INFORMS 2019 President



Introduction

Archis Ghate,
University of Washington



Plenary

Gary S. Kaplan,
Virginia Mason Health System

Keynote

3:10–4pm | CC - 6A, Level 6

Structured Optimization for
Dexterous Robots



Russell Tedrake,
MIT EECS

Keynote

3:10–4pm | CC - 6B, Level 6

Data Science in Online
Marketplaces: An O.R.
Perspective



Bar Ifrach,
Uber Freight

Keynote – 2019 UPS George D. Smith Prize

3:10–4pm | CC - 6C, Level 6

U. of Cincinnati Analytics: History
of Innovation & Practical Impact



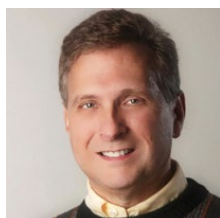
Michael Fry & Glenn Wegryn, CAP,
University of Cincinnati

MONDAY, OCTOBER 21

Plenary – OMEGA RHO Distinguished Lecture

10–10:50am | CC - 6E, Level 6

The Parametric Self-Dual Simplex
Method: A Modern Perspective

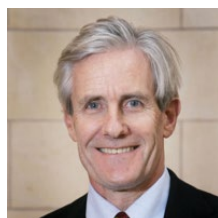


Robert Vanderbei,
Princeton University

Keynote – IFORS Distinguished Lecturer

3:10–4pm | CC - 6A, Level 6

Zero Carbon Analytics

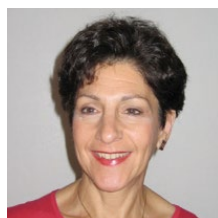


Andy Philpott,
University of Auckland

Keynote – MSOM Fellow

3:10–4pm | CC - 6B, Level 6

The New Age of
Healthcare Delivery



Linda Green,
Columbia Business School



PLENARIES & KEYNOTES

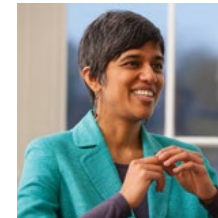
All plenaries and keynotes are located in the Washington State Convention Center (CC), Level 6

MONDAY, OCTOBER 21

Keynote – MSOM Fellow

3:10–4pm | CC - 6C, Level 6

Alleviating Poverty & Inequity:
Fresh Challenges for Business
Model Innovation



Kamalini Ramdas,
London Business School

Keynote

3:10–4pm | CC - 6E, Level 6

INFORMS AI Strategy: Opportunities at the Intersection
of AI and Operations Research



Ramayya Krishnan,
Carnegie Mellon University



Pascal Van Hentenryck,
Georgia Tech University

TUESDAY, OCTOBER 22

Plenary

9:30–10:20am | CC - 6E, Level 6

Planning Transportation
Capacity at Amazon



Russell Allgor,
Amazon

Keynote – Wagner Prize Winner

3:40–4:30pm | CC - 6A, Level 6

2019 Wagner Prize
Winner Reprise



Daniel H. Wagner

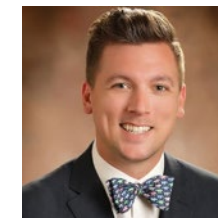
Keynote – 2019 Franz Edelman Award Reprise

3:40–4:30pm | CC - 6B, Level 6

Protecting Community Waterways: Applying Analytics & Optimization for Wastewater Management



Angela Akridge,
Louisville Metropolitan
Sewer District



Wolfie 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 Willcox,
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

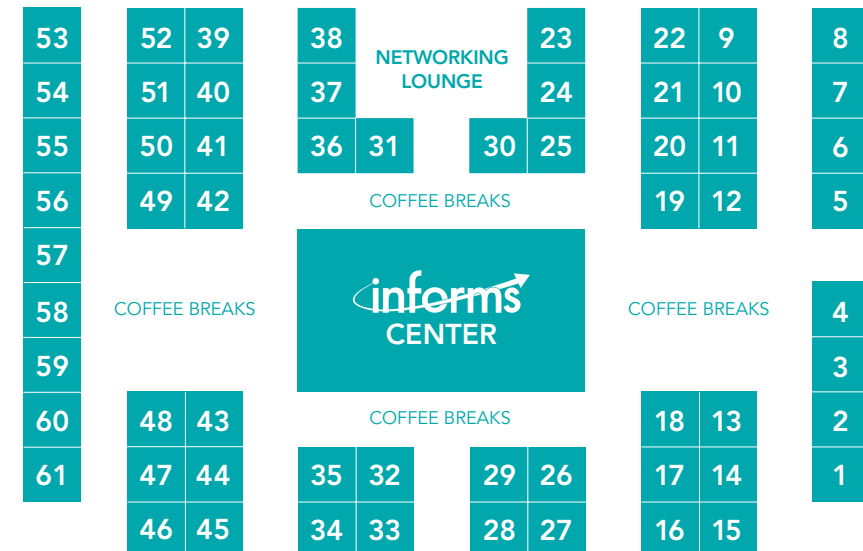


Eric Horvitz,
Microsoft



EXHIBIT HALL MAP - EXHIBIT HALL 4AB, LEVEL 4

POSTER SESSIONS



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EXHIBITOR DIRECTORY

AIMMS

Booths #3 & 4 | 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 | amazon.force.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 | ampl.com

AMPL is an 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 | 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 particularly active in the energy & environment, logistics & transportation, telecommunications, finance, and defense sectors. Artelys develops, distributes, and supports a comprehensive portfolio of efficient and robust optimization tools such as Artelys Knitro (the most advanced solver for nonlinear optimization), Artelys Kalis, FICO Xpress Optimization

suite, and AMPL. In addition, Artelys develops the Artelys Crystal suite, a set of user-friendly software dedicated to the optimization of energy and transportation systems. Relying on these powerful tools, Artelys offers flexible solutions that range from functional analysis and organizational architecture design to implementation of complete solutions and operational tools.

AT&T

Booth #12 | business.att.com

AT&T, Inc. is a holding company, which engages in the provision of telecommunications media and technology service. It operates through the following four segments: Communications, Warner Media, Latin America, and Xandar. The Communications segment provides services to businesses and consumers located in the United States, or in U.S. territories, and businesses globally. Please visit us for more information at our booth.

Automation Anywhere

Booths #53 & 54 | automationanywhere.com

Automation Anywhere is the leader in Robotic Process Automation (RPA). Its enterprise-grade, AI-enabled platform combines sophisticated RPA, cognitive and embedded analytic technologies. More than 1,350 organizations use the solution to manage and scale business processes faster, with near-zero error rates, while dramatically reducing operational costs. Automation Anywhere provides automation technology to leading financial services, insurance, healthcare, technology, manufacturing, telecom, and logistics companies globally.

Binghamton University

Booth #34 | 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.

BoldIQ

Booth #60 | boldiq.com

An operationally focused optimization platform, BoldIQ's cloud-based industry solutions deliver actionable plans and schedules for immediate 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



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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 | 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 | 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 across all industries, with implementations in China, the United Kingdom, France, Germany, Denmark, Thailand, Canada, and Colombia.

Dynamic Ideas

Booth #18 | dynamic-ideas.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 | elsevier.com

Elsevier is a leading publisher of operations and decision science research. The journals published by Elsevier provide a home for peer reviewed research that advances this important field and related disciplines.

FAMU-FSU College of Engineering

Booths #51 | 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

composite and nanomaterials, and multifunctional nanomaterials advanced manufacturing. Brochures for undergraduate and graduate programs will also be on display.

FICO® Xpress

Booths #32 & 33 | 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 four 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 | flexsim.com

FlexSim is 3D simulation modeling software for industrial and healthcare operations, transforming your existing 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 clients to test "what if" scenarios in a risk-free virtual environment. FlexSim is easy to use, feature-rich, and visually stunning, and our developers are responsive to customer needs. See the latest version of our flagship simulation package, FlexSim 2018, and don't forget to ask about our special offers.

Frontline Systems, Inc.

Booth #26 | solver.com

Frontline Systems enables "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. You start for free and scale up easily to the largest models, using Analytic Solver® and our RASON® modeling language and REST API. Use our Solver and XLMiner® SDKs for C#, Java, C++, R, and Python to create your own analytics applications. Find your fastest path to real analytics results.



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GameLab

Booth #14 | gamelabeducation.com

At GameLab Education we develop management laboratories for university and corporate classrooms around the world. Labs were undergrad, postgrad, and executive learners can experiment with their decisions. They can fail, try again, succeed, and thus 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-performance 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.

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 and reliability analysis, financial modeling, and mass transport modeling.

Gurobi Optimization

Booth #19 & 20 | gurobi.com

Gurobi Optimization is dedicated to 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.

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 the power of cloud and cognitive insights. These advanced analytics capabilities provide robust, user-friendly platforms aimed at helping you solve even the most complex business and research problems.

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 supply chain data science and operations research.

Kuaishou

Booth #8 | kuaishou.com

Kuaishou is a short, video-based social platform where people can record and share their life experiences. Since 2011, the company has grown into the largest life sharing community in the world. By May 2019, with over 200 million daily active users, the platform takes first place in the short video industry has also become highly popular in Southeast Asia and South Korea, Russia, Brazil, etc. Kuaishou is on a mission to increase every individual's happiness through big data and A.I. technology. Kuaishou was created based on the belief that everyone's lives are worth chronicling.



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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 global optimum of nonconvex models. The stochastic programming solver has a full range of capabilities for planning under uncertainty. LINDO provides a set of versatile intuitive interfaces to suit your modeling preference.

Litic Software

Booth #49 | litic.com

The LITIC Software Company brings you a fresh approach to decision analytics by offering the most comprehensive environment a decision professional would want. The emphasis is no longer on programming and knowing libraries. Instead, LITIC software offers an integrated approach covering a truly comprehensive drag-and-drop specification language with immediate consistency checking, point-and-click data ingestion with advanced ETL facilities, drag-and-drop visualization as in most BI packages, plus deployment options leading to apps, services, or automatically generated code for integration. The result? Model-based problem solving enabled by a great UX, incredible productivity, fantastic prototyping, and above all, industrial-strength decision software.

Lyft

Booth #9 | lyft.com

At Lyft, we're reimagining the world's best transportation. We envision a world where cities feel small 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 who 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.

Massachusetts Institute of Technology (MIT)

Booth #2 | mitsloan.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 accelerate the pace of learning, teaching, and research in engineering and science. 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.'s technology helps companies solve previously impossible optimization problems. MemComputing's novel MemCPU™ Coprocessor technology 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 #22 | ndsu.edu/ime

The Department of Industrial and Manufacturing Engineering (IME) at North Dakota State University is well-known for its high-quality programs, innovative teaching, imaginative research, and student focus. The industrial and manufacturing Engineering offers 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 economic sectors are starving for professionally educated and skilled problem solvers with great communication abilities. IME graduates are well-positioned to meet these needs. This gives our graduates 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 Inc., co-founded by Dr. Robert Ashford, a pioneer in the field of optimization, and Dr. Alkis 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 games. At 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 | procogia.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.

Provalis Research

Booth #43 | provalisresearch.com

Provalis 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,



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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, discrete-event simulation, and project and resource scheduling. SAS provides a software foundation that's 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 are accessible from Python, Lua, Java, R, and the SAS programming language.

SIAM

Booth #47 | siam.org

SIAM offers a wide range of monographs, software manuals, and textbooks for the O.R. community. Come by and browse the books in our respected MOS-SIAM optimization series, which discuss optimization theory, algorithms, software, computational practice, applications, and more. The newest book in the series, *An Introduction to the Scenario Approach*, is a concise, practical book that provides readers with an easy access point to make the scenario approach understandable to nonexperts and offers an overview of various decision frameworks in which the method can be used. We have a wide range of textbooks, classics, and monographs on operations research; statistical analysis; and computational, network, and data science. Come by to learn more about our newly launched journal, *SIAM Journal on Mathematics of Data Science*.

Simio Simulation & Scheduling Software

Booth #28 | www.simio.com

Simio Simulation and Scheduling Software is the most advanced solution on the market. With simulation, it is the only software that is fully object oriented with process and objects being defined graphically with no programming. Unlike other scheduling software, Simio allows you to introduce risk into your production schedule with its patented Risk Based Planning and Scheduling. This dual function in Simio not only helps you improve your business performance from a facility design perspective, but also helps you maximize business results by optimizing the use of critical resources and assessing the risk associated with operational decisions.

Springer

Booth #13 | springer.com

Springer is one of the world's leading global research, educational, and professional publishers, home to an array of respected and trusted brands providing quality content through a range of innovative products and services. Springer is the world's largest academic book publisher, publisher of the world's most influential journals and a pioneer in the field of open research. The company numbers almost 13,000 staff in over 50 countries and has a turnover of approximately EUR 1.5 billion.

Stukent

Booth #24 | stukent.com

Stukent is a digital courseware provider in the high school and higher education space. We develop first-in-the-world courseware through real-world simulations, continuously updated digital textbooks, expert mentoring sessions from proven industry professionals, and much more. Stukent is used by over 1,200 instructors in over 40 countries.

Syngenta

Booth #50 | syngenta.com

Syngenta is a leading agriculture company helping to improve global food security by enabling millions of farmers to make better use of available resources. Through world class science and innovative crop solutions, 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/careers

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



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completely new model for customer care translated into accelerated customer growth and record financials. All the while, we've been rapidly building out our network and expanding our coverage as we set the stage for a 5G era. As of December 31, 2018, we covered more than 325 million people on 4G LTE. At T-Mobile we built a culture that values diversity and inclusion, a commitment to our customers, and a responsibility to our communities and environment. It's these values that are at the core of our DNA and differentiate us from the rest. We have the people, the brand, and the leadership to be UNSTOPPABLE!

Tableau

Booth #7 | tableau.com

Tableau helps people and organizations become more data-driven. The Tableau platform provides the breadth and depth of capabilities that enterprises need and adapts to your environment with unmatched flexibility and choice. Tableau's Academic Programs prepare students to be successful in today's data-driven world and give their resume a boost by providing free software and resources to students and instructors at academic institutions worldwide. Tableau Desktop and Tableau Prep Builder are available for students and instructors.

Taylor & Francis

Booth #11 | taylorandfrancis.com

Taylor & Francis partners with world-class authors, from leading scientists and researchers, to scholars and professionals operating at the top of their fields. Together, we publish in all areas of the humanities, social sciences, behavioural sciences, science, technology, and medicine sectors. We are one of the world's leading publishers of scholarly journals, books, eBooks, text books, and reference works.

The AnyLogic Company

Booth #38 | anylogic.com

The AnyLogic Company is a multinational team operating from the United States and Europe with a global network of partners. We design, develop, and market simulation software for business applications. AnyLogic Software is the standard in multimethod modeling technology which equates to increased efficiency and less risk when tackling complex business challenges. AnyLogic models enable analysts, engineers, and managers to gain deeper insights and optimize complex systems and processes across a wide range of industries. AnyLogic Software is utilized worldwide in thousands of commercial organizations and academic institutions, and in over 40% of Fortune 100 Companies.

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.

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Future *informs* Meetings



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INFORMS CONFERENCE ON SECURITY

February 9–11, 2020 | Monterey, California
meetings.informs.org/2020security



INFORMS ANALYTICS CONFERENCE

April 26–28, 2020 | Denver, Colorado
meetings.informs.org/analytics2020



INFORMS ANNUAL MEETING

November 8–11, 2020 | Washington, DC
meetings.informs.org/nationalharbor2020





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