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GUROBI OPTIMIZATION

CAREER FAIR EMPLOYER RECEPTION & TRACK SIGNS

IBM

EXHIBITOR PASSPORT

NEW STUDENT RECEPTION

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AMPL

NETWORKING LOUNGE & TECHNOLOGY CENTER

UT DALLAS

GENERAL CHAIR’S RECEPTION

GAMS

NEW MEMBER BREAKFAST

PennState Behrend

Black School of Business

INDUSTRIAL & SYSTEMS ENGINEERING DEPARTMENT

COFFEE BREAKS

COFFEE BREAKS

GENERAL CHAIR’S RECEPTION

POSTER SESSION

YOUHUALIN

lyft

CoFFEE BREAKS

PENN STATE

VOLNEEER T-SHIRTS
ORGANIZING COMMITTEE

General Chair
Bill Klimack, Chevron

Program Chair
Gino Lim, University of Houston

Invited Sessions Chairs
Justin Yates, CAP, Francis Marion
Eric Bickel, University of Texas at Austin

Sponsored Sessions Chairs
Illya Hicks, Rice University
Ed Pohl, University of Arkansas

Tutorials Chairs
Rajan Batta, SUNY–Buffalo
Jiming Peng, University of Houston

Contributed Sessions Chairs
Erick Moreno, Texas A&M University
Jaeyoung Cho, Lamar University

Practice Program Chairs
Margery Connor, CAP, Chevron
Kevin Furman, ExxonMobil
Victoria Jordan, Emory Healthcare

Plenary & Keynote Chairs
Andrew Schaefer, Rice University
Laura Albert, U. of Wisconsin-Madison

Poster (Interactive) Sessions Chairs
Jeffrey Herrmann, University of Maryland
Sergiy Butenko, Texas A&M University

Arrangements Chairs
David Ding, University of Houston
Randal Sitton, University of Houston
Welcome to the 2017 INFORMS Annual Meeting in Houston. Houston offers moderate costs, excellent travel connections, and the George R. Brown Convention Center offers a layout for our technical tracks that is very convenient. Houston was battered by Hurricane Harvey, but fortunately was quickly open again for business. The Convention Center and downtown hotels never flooded or lost power and the Houston water supply was never compromised.

That said, many in greater Houston suffered flooding, which persists as I write. Fortunately, noble efforts of assistance were very much in evidence during the storm. The city needs help in recovering and rebuilding. INFORMS is supporting the Houston economy by keeping the meeting here.

Houston is the fourth largest city in the United States. It is diverse in its people and activities. The three main areas of the Houston economy are the energy sector, healthcare, and the space program. We focused on these areas for the meeting. The space program, coupled with the operations research and management science history of excellent solutions, prompted our slogan, “Houston, we solve problems.”

We have a superb lineup of plenary speakers: Richard Tapia, Rice University professor and Director of the Richard Tapia Center for Excellence & Equity, will deliver the opening plenary session. Michael Trick will deliver the Omega Rho Distinguished Lecture at our second plenary session on Sunday; Bob Bixby, Gurobi Chief Strategy Officer and Co-founder, is scheduled for Monday; and Bob Phillips, Uber Director of Data Science, will be our final plenary speaker on Tuesday.

Our excellent keynote speakers were selected to cover both our meeting focus topics as well as the breadth of our field. They are Victoria Jordan, Emory Healthcare, Vice President – Quality; Nancy Currie-Gregg, retired NASA astronaut now on the Texas A&M faculty; the IFORS Distinguished Lecturer Celso Ribeiro, Universidade Federal Fluminense; Cassandra McZeal, ExxonMobil; Andy Boyd, University of Houston; Rich Baraniuk, Rice University; David Shmoys and Shane Henderson, Cornell University; and Tuomas Sandholm, Carnegie Mellon University. Other excellent keynotes will be provided by the Edelman Award, Wagner Prize, and UPS Smith Prize reprises.

Please take advantage of the networking opportunities, including the Welcome Reception on Sunday evening, the General Reception on Tuesday evening at Minute Maid Park, and the areas among the conference exhibits and the Career Center during the meeting. Also, check out the “In and Around Houston” section of the conference website (under “Venue”) to see what sights the Houston area has to offer.

I would like to take this opportunity to thank the INFORMS Meetings Department for their professionalism, hard work, and diligence. I’d also like to thank the INFORMS leadership, both elected and professional staff who contributed to the meeting success. The INFORMS Meetings Committee has served as a great partner in organizing the meeting. Leadership of the INFORMS communities and the cluster and session chairs have organized valuable tracks and sessions. Finally, and most importantly, I am grateful to the following members of the Organizing Committee, for their creativity and hard work that put together a high-quality program: Program Chair Gino Lim, University of Houston; Invited Session Chairs Justin Yates, CAP, Applied Systems and Technology Transfer, and Eric Bickel, University of Texas at Austin; Contributed Session Chairs Erick Moreno-Centeno, Texas A&M University, and Jaeyoung Cho, Lamar University; Sponsored Session Chairs Ed Pohl, University of Arkansas, and Illya Hicks, Rice University; Plenary and Keynote Chairs Andrew Schaefer, Rice University, and Laura Albert, University of Wisconsin-Madison; Tutorials Chairs Rajan Batta, University at Buffalo, and Jiming Peng, University of Houston; Poster (Interactive) Session Chairs Sergiy Butenko, Texas A&M University, and Jeffrey Herrmann, University of Maryland; Practice Chairs Margery Connor, CAP, Chevron, Kevin Furman, ExxonMobil, and Victoria Jordan, Emory Healthcare; Arrangements Chairs Randal Sitton, University of Houston, and Xin (David) Ding, Pennsylvania State University – Behrend. Sarah Williamson, University of Houston, served as the Teacher Program Liaison.

I would also like to thankfully acknowledge the sponsors’ generous contributions without them, the success of our meeting wouldn’t be possible. They include at the Platinum Level DiDi Chuxing and University of Houston Industrial Engineering. At the gold level Cardinal Operations, Caterpillar, Gurobi Optimization, IBM and The Seth Bonder Foundation. At the silver level AIMMS, Chevron, Monsanto and SAS. At the bronze level AMPL, GAMS, Lyft, Penn State University – Behrend Black School of Business, Penn State University, Texas A&M Industrial & Systems Engineering, Universidad Galileo, University of Texas at Austin Graduate Program in Operations Research & Industrial Engineering, University of Texas Dallas Naveen Jindal School of Management, and Youhualin Information Technology Co., Ltd.

William “Bill” Klimack, General Chair
Decision Analysis Functional Manager
Chevron Corporation
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William “Bill” Klimack, General Chair
Decision Analysis Functional ManagerChevron Corporation

GENERAL INFORMATION

This year we will be live streaming from InstagramEngage with INFORMS on Instagram

INFORMS will provide FREE Wi-Fi in the George R. Brown Convention Center, Exhibit Hall B3, Level 3. The Convention Center has free Wi-Fi available in the lobby spaces and concourse. Hilton has free Wi-Fi in the lobby only.

MOBILE APP

The INFORMS Meetings App is available for iOS and Android devices. Detailed information, including the schedule of sessions, abstracts, meeting locations, maps, exhibit details, and more can be found on the app. This dynamic 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 browse through the parallel sessions and special events or search for a specific speaker or keywords. 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 and access the data across devices.

One of the great features of this app is that it allows you to share contact information with other attendees using the Badge Scanner, which is located in the top right-hand corner of every page of the app.

SELF-SERVICE KIOSKS

Receipts
Print your conference receipt on demand by going to Exhibit Hall B3, George R. Brown Convention Center, Level 3, located near INFORMS Registration.

Program Flip Books
Four kiosks are available for full program information. Three are located in the Convention Center, Level 3, two in the foyer space and one in the Exhibit Hall B3. The fourth kiosk will be located in the Hilton on the 3rd Level. The flip book will also be available on the meeting website.

Ribbons
Are you a Session Chair, Cluster Chair, or Poster Presenter and need your ribbons? We have a ‘Ribbon Wall’ where you can select ribbon(s) that can be added to your badge holder!

SOCIAL MEDIA

Join the Twitter Conversation
Add hashtag #informs2017 to your tweets to associate them with the meeting.

Tweets with #informs2017 will be displayed in the Attendee Twitter Feed on the homepage, along with official conference tweets that will alert you to late-breaking info. If you aren’t a Twitter-ite but would like an intro, stop by the INFORMS booth for a quick lesson. Follow @INFORMS2017 for meeting announcements.

Instagram
Engage with INFORMS on Instagram
This year we will be live streaming from INFORMS 2017. Follow our Instagram account @INFORMS_ORMS to stay in the loop with conference happenings. Share your experience by uploading pictures. Use @INFORMS_ORMS and #INFORMS2017.

Snapchat
Follow Us on Snapchat @INFORMS_ORMS
Check out real-time conference videos and photos on INFORMS’ Snapchat. Use the INFORMS Houston Geofilter, available in Convention Center and Hilton, to share your experience.

Flickr
View all conference photos on our Flickr account. Photos can be downloaded, shared, and viewed: https://www.flickr.com/informs.

eNEWS DAILY

INFORMS is publishing the 8th volume of its popular Annual Meeting eNews Daily in Houston. This official record of the Annual Meeting is delivered each day to your inbox, providing a recap of the previous day’s happenings and a preview of the upcoming can’t-miss events. There are links to each issue on the Annual Meeting website. If you would like to advertise in eNews Daily, visit the sponsor page on the website.

BLOGGERS

John Angelis
Alan Briggs, CAP
Aaron Burciaga, CAP
Allen Butler
Joseph Byrum
Sertyale Çay
Wedad Elmaghbraby
Burcu Keskin
S. Phil Kim
Gino Lim
Kayse Maas
Anna Nagurney
Patricia Neri
Paul Rubin
Thiago Serra
Bismark Singh
Frances Sneddon
Shivaram Subramanian
Aurelie Thiele

PASSPORT RAFFLE

To enter the Passport Raffle, you must visit at least 40 exhibitor booths and have the passport stamped by a booth representative including any special events. The Passport can be stamped starting Sunday, October 22 at 12noon, when the Exhibit Hall opens. This will continue throughout the conference.

The Passport Raffle Drawing: INFORMS Center
First drawing to win an Apple Watch - Tuesday, October 24. You must have your passport turned in at the INFORMS Center, Exhibit Hall B3 by 10:45am Tuesday for the drawing at 1:45pm.

Second drawing to win an iPad Mini - Wednesday, October 25. You must have your passport turned at the INFORMS Center, Exhibit Hall B3 by 5pm Tuesday for the drawing at 9:20am Wednesday.

You must be present at time of the drawing.
INFORMS CENTER
INFORMS Center will be located in the center of the Exhibit Hall B3, Level 3 in the George R. Brown Convention Center. This dynamic space is the hub for your Annual Meeting activities. Be sure to stop by and see key INFORMS leadership and staff, and learn more about the many programs and activities taking place both at the Annual Meeting and throughout the year. Make sure to check the Mobile App or the website for an up-to-date schedule of INFORMS Center activities. Members who renew on-site will receive an INFORMS t-shirt.

NETWORKING LOUNGE & TECHNOLOGY CENTER
The Networking Lounge in the Exhibit Hall B3 is for our attendees to relax, hang out, play games, meet other members, and take advantage of free Wi-Fi.

Free Wi-Fi and a Technology Center are located in the Exhibit Hall B3. There are a limited number of computers available in the Technology Center if you do not have your own computer. Name badges must be worn for admittance.

Make sure to follow @INFORMS2017 for special pop-up events in the Networking Lounge.

INFORMS CAREER CENTER
INFORMS Career Center (ICC) is the largest source of operations research and analytics jobs and resumes. It’s where job seekers go to land the right job in academia or industry and where employers post their jobs and search our resume database for qualified candidates.

This service provides employers and applicants with a convenient venue for on-site interviews to explore opportunities in academia, industry, and government. In addition, the job placement service offers:

» Online access to job listings and applicant files
» Expanded information about jobs and applicants
» Daily updates of the database
» Improved database search capabilities
» Online data entry for applicants and employers
» Extended availability of the database at http://careercenter.informs.org

INFORMS CAREER FAIR
Sunday, October 22, 12noon–5pm
George R. Brown Convention Center, Exhibit Hall B3, LVL 3

The Career Fair provides an opportunity for job seekers to meet the participating employers in an informal atmosphere and discuss employment opportunities within those organizations. Employers meet and collect resumes from many job seekers in a short period of time early in the meeting, giving them the chance to set up interviews during the Annual Meeting.

Career Fair Breakfast & Panel Discussion
Sunday, October 22, 7:30–9am (ticketed event)
Hilton - Lanier Ballroom GJ, Level 4

INFORMS Career Services Committee is hosting a networking breakfast and panel discussion at the INFORMS Annual Meeting. This is a great opportunity to interact with employers and other candidates.

Job Search Panel Discussions
Select panels will lead informal discussions about the industry and academic interview process.

Industry Job Search (SC31)
Sunday, October 22, 1:30–3pm
George R. Brown Convention Center - 351A, Level 3

Academic Job Search Panel (MA31)
Monday, October 23, 8–9:30am
George R. Brown Convention Center - 351A, Level 3

POSTER SESSIONS/E-POSTERS
Monday & Tuesday, October 23 & 24, 12:30–2:30pm
George R. Brown Convention Center, Exhibit Hall B3, LVL 3

Researchers, practitioners, and students share their O.R. and analytics projects in these special sessions presented as poster displays, laptop demonstrations, and other creative formats. All poster competition semi-finalists will have the option of presenting an electronic version of their final poster to be digitally displayed during the sessions.
infORmational SESSIONS
The INFORMS Center is located in Exhibit Hall. infORmational Q&A Sessions with INFORMS members are listed below.

SUNDAY, OCTOBER 22
CAP/aCAP  
3:30–5pm
Learn more about the analytics certification program.

2018 Annual Meeting (Phoenix)  
3:30–5pm
Meet committee members for the 2018 Annual Meeting and find out why you should attend.

Editor’s Cut  
3:30–5pm
Feeding the World through Analytics editors will discuss challenges & opportunities in the world’s largest industry: agriculture. Explore how O.R. & analytics address the needs of sustainable nutrition security. Meet with past volume editors to learn more on Editor’s Cut & topics like elections & trafficking.

2018 International Conference  
3:30–5pm
Meet committee members for the Taipei Conference and find out why you should attend.

Meet the INFORMS Board  
7:30–8:30pm

MONDAY, OCTOBER 23
Organization Science  
9–10:30am
The editor-in-chief will present the vision for the journal, important new practices, procedures & innovation being planned for the journal. He will also cover the core publication philosophy of the journal.

Mentor Match  
9–10:30am
How can mentoring help you advance your career? We’ll show you how to enroll and find your match!

2018 Annual Meeting (Phoenix)  
9–10:30am

Analytics Body of Knowledge  
3:30–5pm
Join us as for a presentation about the exciting developments with INFORMS Analytics Body of Knowledge as we prepare to publish its first-edition.

2018 International Conference  
3:30–5pm

Mathematics of Operations Research  
3:30–5pm
What type of “learning” papers fit MOR? To which area should I submit my paper that intersects with game theory & optimization? Come chat with EiC Jim Dai & find out how much MOR has improved its review time.

Interfaces  
3:30–5pm
Are you doing creative and valuable applied work? Interfaces looks for work that has methodological contributions, but focuses on how to make methods work in practice. Come talk to the EiC to find out how Interfaces can bolster your research and productivity!

TutORials in Operations Research  
3:30–5pm
What are INFORMS TutORials? Who is its audience? What topics would you like addressed? How can this series better serve the OR/MS communities? Come and have a conversation with the Series Editor, Doug Shier.

TUESDAY, OCTOBER 24
Stochastic Systems  
8:30–10am
Stochastic Systems has joined the INFORMS suite of journals. Join editor-in-chief Shane Henderson to learn more about its mission as an open access journal, editorial scope, and whether your paper is relevant for INFORMS’ newest publication.

SpORts  
8:30–10am
The mission of the Section on O.R. in Sports is to promote and disseminate research and applications among those interested in theory, methodologies, and applications of OR/MS to sports problems.

INFORMS Transactions on Education  
8:30–10am
The editors will provide suggestions to authors who wish to submit their work to ITE. What material should be included in a case study or classroom game submitted to ITE? To what extent should approaches be classroom tested, and the main criteria to accept a paper for ITE.

Pro Bono Analytics  
8:30–10am
Interested in volunteering your analytical skills to help underserved communities? Learn about our recent projects and discover how you can join your colleagues who are already volunteering with Pro Bono Analytics!

2018 Annual Meeting (Phoenix)  
1–2:30pm

Student Team Competition  
1–2:30pm
The INFORMS OR & Analytics Student Team Competition provides a real-world business problem that can be used as a case or capstone project. Learn more about the competition & the 2018 problem on portfolio optimization posed by the title sponsor, Principal.

2018 International Conference  
1–2:30pm

Crop Challenge in Analytics  
1–2:30pm
3rd Syngenta & INFORMS Analytics Society Annual Crop Challenge in Analytics that encourages innovative thinkers to make crop production more efficient. Learn about this year’s question and how this cross-industry collaboration can work toward feeding a growing population.

WEDNESDAY, OCTOBER 25
2018 International Conference  
9–10:30am

CAP/aCAP  
9–10:30am

INFORMS Diversity Committee  
9–10:30am
Learn about INFORMS commitment to diversity, equality, and inclusion.
SATURDAY WORKSHOPS ON PAGE 13

SATURDAY, OCTOBER 21

INFORMS Registration
Organization Science Dissertiation Competition
Executive Committee Meeting
INFORMS Board Meeting
Roundtable Reception (invite only)
Roundtable Dinner (invite only)
ISS Awards & ISR Editors Reception

GBCC - Exhibit Hall B3, Level 3 7am–5pm
Hilton - Lanier HK, Level 4 8am–5pm
Hilton - 230, Level 2 8am-12noon
Hilton - 334, Level 3 9:30–11:30am
Hilton - Ballroom of Americas C, Level 2 11:45am–5pm
Hilton - 335C, Level 3 5–6pm
Hilton - 335C, Level 3 6–7pm
Hilton - Ballroom of Americas DE, Level 2 6–7:30pm

SUNDAY, OCTOBER 22

INFORMS Registration
New Member Breakfast (invite only)
ITE Editorial Board Breakfast & Meeting (invite only)
Career Center Breakfast & Meeting
Technical Sessions (SA)
CAP Job Task Analysis
INFORMS Board Meeting
AIMMS, Student Learning Lab
Coffee Break
Welcome & Plenary: Richard Tapia
CIEADH
Technical Sessions (SB)
Exhibits, Career Center, Technology Center
INFORMS Center, Networking Lounge
ITOR Editorial Board Meeting (invite only)
Junior Faculty Interest Group Lunch (ticketed event)
Lunch Break (on your own)
MSOM Associate Editors Lunch (invite only)
Technical Sessions (SC)
Plenary: Omega Rho: Mike Trick
Coffee Break
Technical Sessions (SD)
INFORMS Community Meetings
Career Fair Employer Reception
INFORMS Connect & Social Networking Reception
Welcome Reception - Exhibits Open
MIF Reception
Awards Ceremony & Dessert Reception

GBCC - Exhibit Hall B3, Level 3 7am–5:30pm
Hilton - Lanier CF, Level 4 7–8am
Hilton - 342, Level 3 7:30–9am
Hilton - Lanier GJ, Level 4 7:30–9am
GBCC - Various Rooms, Level 3 8–9:30am
Hilton - 328, Level 3 8am–4pm
Hilton - Ballroom of Americas C, Level 2 8am–5pm
Hilton - 335A, Level 3 9am–12noon
Hilton - Exhibit Hall B3, Level 3 9:30–10am
GBCC - General Assembly B, Level 3 10–10:50am
Hilton - 337, Level 3 10am–4pm
GBCC - Various Rooms, Level 3 11am–12:30pm
GBCC - Exhibit Hall B3, Level 3 12noon–5pm
GBCC - Exhibit Hall B3, Level 3 12noon–5pm
Hilton - 344, Level 3 12:30–2pm
Hilton - Lanier GJ, Level 4 12:30–1:30pm
Hilton - 343, Level 3 12:30–2:30pm
GBCC - Various Rooms, Level 3 1:30–3pm
GBCC - General Assembly B, Level 3 3:10–4pm
GBCC - Exhibit Hall B3, Level 3 4–4:30pm
GBCC - Various Rooms, Level 3 4:30–6pm
See page 24
Hilton - 339, Level 3 5:30–6:30pm
Hilton - 338, Level 3 6:30–7:30pm
GBCC - Exhibit Hall B3, Level 3 7:30–9pm
Sambuca - 909 Texas Ave. 8–9:30pm
Hilton - Lanier ABDE, Level 4 8:30–9:45pm

MONDAY, OCTOBER 23

INFORMS Registration
Roundtable Meeting (invite only)
IFORS Member Societies Breakfast
ACORD Breakfast/Business Meeting
Engagement w/Organizations Committee Meeting
Service Science Editorial Board Meeting
PSOR Breakfast/Business Meeting
Technical Sessions (MA)
Chapters/Fora Committee
Exhibits, Career Center, Technology Center
INFORMS Center, Networking Lounge
Coffee Break
Education Strategy Committee Meeting
Section/Societies Committee Meeting
Plant Tour: U. of Texas MD Anderson Cancer Center
Plenary: Bob Bixby
Technical Sessions (MB)
Lunch Break (on your own)
Section/Societies Officers Lunch (invite only)
Border Scholarship Lunch
COIN-OR Members & Users

GBCC - Exhibit Hall B3, Level 3 7am–5pm
Hilton - Lanier HK, Level 4 7am–5pm
Hilton - 344, Level 3 7–8:30am
Hilton - 339, Level 3 7:30–9am
Hilton - 335 BC, Level 3 8–9am
Hilton - Lanier CF, Level 4 8–10am
Hilton - 343, Level 3 8–9:30am
GBCC - Various Rooms, Level 3 8–9:30am
Hilton - 335A, Level 3 8:30–9:30am
Hilton - Exhibit Hall B3, Level 3 9am–5pm
GBCC - Exhibit Hall B3, Level 3 9am–5pm
Hilton - 326, Level 3 9:30–10am
Hilton - 335A, Level 3 9:30–10:30am
See page 11
Hilton - Ballroom of Americas, Level 2 10–10:50am
GBCC - Various Rooms, Level 3 11am–12:30pm
GBCC - Exhibit Hall B3, Level 3 12noon–1:30pm
Hilton - 335A, Level 3 12:30–1:30pm
Hilton - 342, Level 3 12:30–1:30pm
Hilton - 339, Level 3 12:30–1:30pm
MONDAY, OCTOBER 23 (Continued)

Post Office Session & Competition
- Publications/Editors-in-Chief Meeting
- Fellows Lunch (invite only)
- Technical Sessions (MC)
  - Subdivision Council
  - Education Outreach Meeting
- Keynote: Victoria Jordan
- Keynote: Nancy Currie-Gregg
- Keynote: IFORS: Celso Ribeiro
- Keynote: UPS George D. Smith Reprise
- Coffee Break
- Technical Sessions (MD)
  - INFORMS Community Meetings
  - Interfaces Editorial Board Meeting (invite only)
  - Student Awards Ceremony & Reception
- GBCC - Exhibit Hall B3, Level 3  12:30–2:30pm
- Hilton - Lanier HK, Level 4  12:30–3:30pm
- Hilton - Lanier GJ, Level 4  12:45–2:30pm
- GBCC - Various Rooms, Level 3  1:30–3pm
- Hilton - Lanier CF, Level 4  2:30–4:30pm
- Hilton - 326, Level 3  3–4pm
- GBCC - General Assembly A  3:10–4pm
- GBCC - General Assembly B  3:10–4pm
- GBCC - Grand Ballroom C  3:10–4pm
- GBCC - Grand Ballroom B  3:10–4pm
- GBCC - Exhibit Hall B3, Level 3  4–4:30pm
- GBCC - Various Rooms, Level 3  4:30–6pm

TUESDAY, OCTOBER 24

INFORMS Registration
- Chapters/Fora Officers Award Breakfast (invite only)
- Transportation Science Associate Editors (invite only)
- Technical Sessions (TA)
  - CE Committee Meeting
- Student Chapter Officers Meeting
- Exhibits, Career Center, Technology Center
- INFORMS Center, Networking Lounge
- Coffee Break
- Plant Tour: Baker Hughes Research & Test Facility
- Plenary: Bob Phillips
- Technical Sessions (TB)
  - UOC Editorial Board Luncheon (invite only)
- Technical Sessions (TC)
  - Women in OR/MS Luncheon (ticketed event)
  - UOC Editorial Board Meeting
- Poster Session & Competition
  - INFORMS Community Meetings
  - Coffee Break
- Technical Sessions (TD)
  - Keynote: Wagner Prize Reprise
  - Keynote: Andy Boyd
  - Keynote: Edelman Reprise
  - Keynote: Cassandra McZeal
  - Keynote: Tuomas Sandholm
- Technical Sessions (TE)
  - Exhibitor & Organizing Committee Reception (invite only)
  - INFORMS Member Meeting
  - General Reception
- GBCC - Exhibit Hall B3, Level 3  7am–5pm
- Hilton - 339, Level 3  7–8am
- Hilton - 343, Level 3  7:30–9am
- GBCC - Various Rooms, Level 3  7:30–9am
- Hilton - 331, Level 3  8–9am
- Hilton - 339, Level 3  8–8:45am
- GBCC - Exhibit Hall B3, Level 3  9am–5pm
- GBCC - Exhibit Hall B3, Level 3  9am–5pm
- GBCC - Exhibit Hall B3, Level 3  9–9:30am
- See page 11
- Hilton - Ballroom of Americas, Level 2  9:40–10:30am
- GBCC - Various Rooms, Level 3  10:30am–12noon
- Hilton - 344, Level 3  12noon–1pm
- GBCC - Various Rooms, Level 3  12:05–1:35pm
- Hilton - Ballroom of Americas AB, Level 2  12:30–1:30pm
- Hilton - 343, Level 3  12:30–1:30pm
- GBCC - Exhibit Hall B3, Level 3  12:30–2:30pm
- See page 24
- GBCC - Exhibit Hall B3, Level 3  1:35–2pm
- GBCC - Various Rooms, Level 3  2–3:30pm
- GBCC - Grand Ballroom A, Level 3  3:40–4:30pm
- GBCC - Grand Ballroom B, Level 3  3:40–4:30pm
- GBCC - General Assembly A, Level 3  3:40–4:30pm
- GBCC - General Assembly B, Level 3  3:40–4:30pm
- GBCC - General Assembly C, Level 3  3:40–4:30pm
- GBCC - Various Rooms, Level 3  4:35–6:05pm
- Hilton - 339, Level 3  5–6pm
- Hilton - Ballroom of Americas AB, Level 2  6–7:30pm
- Minute Maid Park  7:30–10pm

WEDNESDAY, OCTOBER 25

INFORMS Registration
- Technical Sessions (WA)
- Coffee Break
- Exhibits & Technology Center
- INFORMS Center, Networking Lounge
- Career Center
- Keynote: David Shmoys & Shane Henderson
- Keynote: Rich Baraniuk
- Technical Sessions (WB)
- Technical Sessions (WC)
- GBCC - Exhibit Hall B3, Level 3  7am–1:30pm
- GBCC - Various Rooms, Level 3  7:30–9am
- GBCC - Exhibit Hall B3, Level 3  9am–12:30pm
- GBCC - Exhibit Hall B3, Level 3  9am–3pm
- GBCC - Exhibit Hall B3, Level 3  9:40–10:30am
- GBCC - Grand Ballroom B, Level 3  9:40–10:30am
- GBCC - Various Rooms, Level 3  10:30am–12noon
- GBCC - Various Rooms, Level 3  12:30–2pm
SUNDAY, OCTOBER 22

New Member Welcome Breakfast
7–8am  |  Hilton - Lanier CF, Level 4

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

Sponsored by GAMS

Junior Faculty Interest Group Luncheon
12:30–1:30pm  |  Hilton - Lanier GJ, Level 4
Member: $40, Student: $30, Non-Member: $50

A limited number of tickets may be available on-site. Go to INFORMS Registration for information on availability. No tickets will be sold at the door. The winners of the 2017 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 University of Tennessee, University at Buffalo, and Clemson University

INFORMS Connect & Social Networking Reception
6:30–7:30pm  |  Hilton - 338, Level 3

What’s your social networking strategy for yourself or for INFORMS? We invite all contributors to INFORMS social networking sites to come and meet face-to-face. Join us for refreshments - we are your INFORMS Online community! Your social media post with #informs2017 is your ticket to the event.

Minority Issues Forum Reception
8–9:30pm  |  Sambauc, 909 Texas Avenue

Come meet old friends and make new ones while talking about minority issues, other intellectual issues, and opportunities.

Sponsored by (as of September 22) Cornell University, Operations Research and Information Engineering; North Carolina A&T State University, Industrial and Systems Engineering; North Carolina State University, Industrial and Systems Engineering; Texas A&M University, Industrial and Systems Engineering

See the 2017 INFORMS Annual Meeting mobile app for complete sponsorship listings.

MONDAY, OCTOBER 23

COIN-OR Members & Users Meeting
(Bring Your Own) Bag Lunch
12:30–1:30pm  |  Hilton - 339, Level 3

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.

INFORMS Fellows Luncheon (Invite Only)
12:45–2:30pm  |  Hilton - Lanier GJ, Level 4

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 OR/MS over a period of time. Their service to the profession and to INFORMS has culminated in election to the INFORMS Fellows Award.

Class of 2017 Newly-Elected INFORMS Fellows:
Shabbir Ahmed, Georgia Institute of Technology
Jeffrey M. Alden, General Motors
Jeffrey D. Camm, Wake Forest University
James Cochran, University of Alabama
Shane G. Henderson, Cornell University
David Morton, Northwestern University
Andy Philpott, University of Auckland
R. Ravi, Carnegie Mellon University
Edwin Romeijn, Georgia Institute of Technology
Andrzej Ruszczynski, Rutgers University
Susan Sanchez, Naval Postgraduate School
Jing-Sheng Jeannette Song, Duke University
Mark S. Squillante, IBM Research

Student Awards & Reception
7:30–9:30pm  |  Hilton - Lanier ABDE, Level 4

All students registered for the meeting are invited to attend the reception. Join us for an evening of food and drink, fun, and networking. Come relax after a busy day of sessions and mingle with fellow students from universities around the world.

Student awards to be announced during the Student Award Reception:
Judith Liebman Award
Student Chapter Annual Award

Sponsored by The Seth Bonder Foundation
MONDAY, OCTOBER 23  (Continued)

Women Networking Dessert Reception
8-11pm  |  Grotto Downtown, 1001 Avenida De Las Americas A

Make new connections in an informal setting. Open to all INFORMS members (members of WORMS or not), female or male.

TUESDAY, OCTOBER 24

Women in OR/MS Forum Luncheon  (Ticketed Event)
12:30–1:30pm  |  Hilton - Ballroom of Americas AB, LVL 2
Member: $30, Student: $20, Non-Member: $35

A limited number of tickets may be available on-site. Go to INFORMS Registration for information on availability. No tickets will be sold at the door. All those interested in issues related to women professionals in OR/MS are invited to join us.

Sponsored by The Ohio State University, Dept. of Integrated Systems Engineering; Stanford Graduate School of Business; Center on Stochastic Modeling, Optimization, & Statistics; The University of Texas at Arlington; Clemson University Department of Industrial Engineering; Eindhoven University of Technology; Fuqua School of Business, Georgia Tech School of Industrial & Systems Engineering; HKUST Business School; Indian School of Business; Information, Risk, & Operations Management Department, McCombs School of Business; IU Kelley School of Business, ODT Dept; Marshall School of Business: Data Sciences & Operations Dept.; Moore School of Business, University of South Carolina; Northwestern University, IEMS; NYU Stern School of Business; Olin Business School, Washington University in St. Louis; Professor Elena Belavina, University of Chicago Booth School of Business; Sandia National Laboratories; SC Johnson College of Business; The Johns Hopkins Carey Business School; The University of Texas at Dallas; Tuck School of Business at Dartmouth; UBC Sauder School of Business; UCLA Anderson School of Management; UM Industrial & Operations Engineering; University of Arizona Department of Systems and Industrial Engineering; University of California at Davis; University of Florida/Information Systems and Operations Management; USC Daniel J. Epstein Dept of Industrial & Systems Engineering; Vanderbilt University School of Engineering; WSO&M Dept. of Operations; Department of Industrial & Systems Engineering, University of Tennessee, Knoxville; Department of Information Systems, Statistics & Management Science; GT ADVANCE Program, Scheller College of Business; Industrial Engineering - University of Arkansas;
INSEAD Ioana Popescu, Operations & Technology Management Department; Southern Methodist University - Lyle School of Engineering; Southern Methodist University Cox School of Business, Supply Chain & Information Systems; The Rotman School of Management, University of Toronto; Worcester Polytechnic Institute’s Foisie Business School; Professor Candi Yano, University of California, Berkeley

INFORMS Member Meeting
6–7:30pm  |  Hilton - Ballroom of Americas AB, LVL 2

The INFORMS Board of Directors encourages all members to bring their ideas, opinions, and suggestions to this meeting. Current business and future directions for INFORMS are on the agenda. Also, our outstanding members will be celebrated with the presentation of the Volunteer Service Award.

ESPECIALLY FOR FIRST TIME ATTENDEES

Coffee with a Member
This wonderful program connects INFORMS first-time meeting attendees with some of INFORMS most enthusiastic members for 15 minute impromptu meetings and some sage INFORMS advice. First time attendees were offered the opportunity to sign up before the meeting on a first-come, first-served basis. It is not possible to sign up in Houston.

PLANT TOURS  (Ticketed Events)
Pick-up location: South Transit Center, 1710 Polk St.
Connected to the GBCC and Hilton via skybridges

The University of Texas - MD Anderson Cancer Center
Monday, October 23  |  12:30–4:30pm

The University of Texas MD Anderson Cancer Center is one of the world’s most respected centers devoted exclusively to cancer. As the largest freestanding cancer center in the world, MD Anderson has the latest equipment and facilities to support the endeavors of its faculty and staff in outpatient and inpatient care, research, prevention, and education. During a walking tour of the MD Anderson main campus in the Texas Medical Center, you will learn the history of the institution, including the multidisciplinary approach to treating cancer.

Baker Hughes Research & Test Facility
Tuesday, October 24  |  10:30am–3:30pm

The Houston Technology Center (HTC) began operations in 2000, integrating the technology development and manufacturing capabilities of our wireline well logging and Measurement While Drilling (MWD) formation evaluation product lines. The facility contains an environmental testing laboratory for the simulation of extreme downhole temperatures, pressures, and vibrations. World class flow loops simulate multiphase flow in vertical, deviated, and horizontal wells for the testing of both wireline and MWD instruments.

All participants must wear closed-toe shoes. If you are not a U.S. citizen you will be asked to show your passport.
SUNDAY, OCTOBER 22
Welcome Reception & Exhibits
7:30–9pm
GBCC - Exhibit Hall B3, Level 3

The Welcome Reception 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 Reception
8:30–9:45pm (Doors close at 8:45pm)
Hilton - Lanier Grand Ballroom ABDE, Level 4

The INFORMS Board of Directors invites you to honor and celebrate the achievements of our colleagues at the annual Awards Ceremony. You can attend the Welcome Reception first and then proceed to the Hilton, Lanier Grand Ballroom ABDE, Level 4 for the Awards Ceremony. Dessert and coffee will be served. Following the ceremony, you’ll have an opportunity to congratulate the awardees. Please note that the reception is part of the ceremony event, open to the awardees, their friends and colleagues, and all those who attend the Award Ceremony.

Sponsored by Caterpillar

These prestigious awards will be presented during the ceremony:

Bonder Scholarship for Applied Operations Research in Military Applications
Lee Evans, University of Louisville

Bonder Scholarship for Applied Operations Research in Health Services
Justin Boutilier, University of Toronto

Saul Gass Expository Writing Award
John Tsitsiklis, Massachusetts Institute of Technology

PhilipMcCord Morse Lectureship Award
Eva Tardos, Cornell University

John von Neumann Theory Prize
Donald Goldfarb, Columbia University
Jorge Nocedal, Northwestern University

George E. Kimball Medal
Fred Hillier, Stanford University (Emeritus)
Russell Labe, CAP, RPL Analytics Consulting

INFORMS President’s Award
David Hunt, Oliver Wyman

TUESDAY, OCTOBER 24
General Reception
7:30–10pm
Minute Maid Park

Just a short walk from the Hilton Americas heading north down Avenida de las Americas – 0.5MI

We’re going to take you out to the ballpark for a night full of fun! Minute Maid Park is the ballpark the Astros call home. You’ll have a bird’s-eye view of the ball field, a great venue to relax with friends and colleagues, with the opportunity to sample baseball food at its finest.

You can also listen (and maybe even dance!) to the high energy sounds of “The Emotions” with Justin Thompson. The Emotions have entertained hundreds of thousands of people in the state of Texas. Don’t miss this fabulous evening.

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 Prize
George E. Nicholson Student Paper Competition
Four student awards will also be announced during the ceremony:
- Undergraduate Operations Research Prize
- George E. Nicholson Student Paper Competition
- Doing Good with Good OR Student Competition
- George B. Dantzig, Dissertation Prize

Welcome Reception & Exhibits
7:30–9pm
GBCC - Exhibit Hall B3, Level 3
The Welcome Reception is the perfect venue to
INFORMS Awards Ceremony & Dessert Reception
Hilton - Lanier Grand Ballroom ABDE, Level 4
(Doors close at 8:45pm)

TUESDAY, OCTOBER 24
7:30–10pm
General Reception
Hilton, Lanier Grand Ballroom ABDE, Level 4 for the Awards
first and then proceed to the
attend the Welcome Reception
Awards Ceremony. You can

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SPECIAL RECEPTIONS
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Lee Evans, University of Louisville
Research in Military Applications
Bonder Scholarship for Applied Operations
Research in Health Services
Saul Gass Expository Writing Award
John Tsitsiklis, Massachusetts Institute of Technology
John von Neumann Theory Prize
Jorge Nocedal, Northwestern University
George E. Kimball Medal
Fred Hillier, Stanford University (Emeritus)
Russell Labe, CAP, RPL Analytics Consulting
INFORMS President’s Award
David Hunt, Oliver Wyman

GBCC – George R. Brown Convention Center | Hilton – Hilton Americas-Houston Hotel

SATURDAY, OCTOBER 21

Combined Colloquium (Paid Event)
Teaching Effectiveness Colloquium (TEC)
New Faculty Colloquium (NFC)
Doctoral Student Colloquium (DSC)
Combined Colloquia Breakfast
Combined Colloquium Lunch
Combined Colloquium Coffee Break
Colloquium Reception
Hilton - Lanier C, Level 4
Hilton - Lanier B, Level 4
Hilton - Lanier AD, Level 4
Hilton - Lanier GJ, Level 4
Hilton - Lanier GJ, Level 4
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Hilton - Lanier GJ, Level 4
7am–5pm
7am–5pm
7am–5pm
7–9am
9:15–9:30am
11:30am–1pm
2:45–3pm
5–6pm

CIST (Paid Event)
Breakfast
Sessions
Coffee Break
Panel
Lunch & Keynote
Coffee Break
Hilton - Ballroom of Americas DE, Level 2
Hilton - Ballroom of Americas A, B, & F, Level 2
Hilton - Ballroom of Americas DE, Level 2
Hilton - Ballroom of Americas A, Level 2
Hilton - Ballroom of Americas DE, Level 2
Hilton - Ballroom of Americas DE, Level 2
7:30–8:15am
8:15am–5:40pm
9:30–9:55am
11:15am–12:15pm
12:15pm–2pm
3:15–3:30pm

Academic Leadership Workshop (Paid Event)
Breakfast
Sessions
Coffee Break
Lunch
Coffee Break
Reception
Hilton - 335A, Level 3
Hilton - 335A, Level 3
Hilton - 335A, Level 3
Hilton - 335A, Level 3
Hilton - 335A, Level 3
Hilton - 329, Level 3
7:30–8am
8am–5pm
10:45–11am
12noon–1pm
2:30–2:45pm
5–6pm

Data Science Workshop (Paid Event)
Breakfast
Keynote
Sessions
Coffee Break
Lunch & Poster Slam Session
Panel
Coffee Breaks
Panel
Reception
Hilton - 343, Level 3
Hilton - 343, Level 3
Hilton - 344 & 346, Level 3
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7–8am
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10:30–10:45am
12:20–12:30pm
1:30–2:30pm
2:30–2:45pm
4:50–5:30pm
6–7pm

Data Mining & Decision Analytics Workshop (Paid Event)
Breakfast
Keynotes
Sessions
Lunch
Hilton - 339, Level 3
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Hilton - 337 & 338 , Level 3
Hilton - 339, Level 3
7:30–8am
8:30am–9am
8:45am–6:10pm
12noon–1pm

Technology Workshops (Open to all attendees)
FICO
Optimization Direct Inc.
Palisade
JMP, a division of SAS
SIMIO LLC
MathWorks
Tableau Software
Frontline Systems, Inc.
GAiMS
Gurobi Optimization
LINDO Systems, Inc.
Responsive Learning Technologies
SAS
IBM
DiDi Chuxing
Frontline Systems, Inc.
MathWorks
Tableau Software
Frontline Systems, Inc.
1–3:30pm
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SUNDAY, OCTOBER 22

CIST (Paid Event)
Sessions
Coffee Break
Lunch & Awards
Coffee Break
Hilton - Ballroom of Americas A, B & F, Level 2
Hilton - Ballroom of Americas DE, Level 2
Hilton - Ballroom of Americas DE, Level 2
Hilton - Ballroom of Americas DE, Level 2
9am–5:30pm
9:40–9:50am
12noon–2pm
2:15–3:30pm

MEETING/TECHNOLOGY WORKSHOPS
All Technology Tutorials are located in the George R. Brown Convention Center, Level 3

**SUNDAY, OCTOBER 22**

**GAMS Development Corp.**
8:15–9am | 371D
www.gams.com
Introduction to Key Concepts of the GAMS Language

**Optimization Direct Inc.**
11:45am–12:30pm | 372F
www.optimizationdirect.com
DSX & CPLEX: Overview of Data Science Experience for Advanced Modeling, Optimization, & Latest Developments/results in CPLEX & ODh+CPLEX

**ARUNDO**
1:30–2:15pm | 370F
www.arundo.com
IIOT and Data-Driven Modeling in Asset Heavy Industry

**Tableau Software**
2:15–3pm | 370F
www.tableau.com
Experience Visual Analytics with Tableau

**Lumina Decision Systems**
5:15–6pm | 381B
www.lumina.com
Why go “Beyond the Spreadsheet” with Analytica 5.0?

**MONDAY, OCTOBER 23**

**IBM**
8–8:45am | 361D
www.ibm.com
Generic Callbacks in CPLEX, a New Approach

**Palisade Corporation**
8:45–9:30am | 361D
www.palisade.com
Quantitative Risk Analysis in Excel with @RISK

**SIMIO LLC**
11–11:45am | 371D
www.simio.com
Simio’s 3D Rapid Modeling Capability

**AMPL Optimization, Inc.**
11:45am–12:30pm | 371D
www.ampl.com
Developing Optimization Applications Quickly and Effectively through Algebraic Modeling in AMPL

**LINDO Systems, Inc.**
1:30–2:15pm | 360A
www.lindo.com
Optimization Modeling Tools from LINDO Systems

**Artelys Corp.**
2:15–3pm | 360A
www.artelys.com
Discover Artelys Knitro, the Leading Solver for Nonlinear Optimization

**Gurobi Optimization**
4:30–5:15pm | 380A
www.gurobi.com
Optimization with R

**MONDAY, OCTOBER 23 (Continued)**

**Princeton Consultants**
5:15–6pm | 380A
www.princeton.com
Analytics Model Review and Validation

**TUESDAY, OCTOBER 24**

**Syncopation Software**
7:30–8:15am | 371F
www.syncopation.com
DPL Portfolio and DPMX(tm): A Decision Analysis-based System for Better Portfolio Decisions

**MathWorks**
8:15–9am | 371F
www.mathworks.com
Data Analytics with MATLAB

**Responsive Learning Technologies**
10:30–11:15am | 372E
www.responsive.net
Online games to teach operations and supply chain management.

**FICO**
11:15am–12noon | 372E
www.fico.com
How to Deploy your Analytic Models to Empower Non-technical Business Users

**Provalis Research**
12:05–12:50pm | 371F
www.provalisresearch.com
Analyzing Approaches: Computer Assisted Qualitative Coding; Content Analysis Dictionaries or Taxonomies & Supervised Machine Learning

**Frontline Systems, Inc.**
12:50–1:35pm | 371F
www.solver.com
AnalyticsSolver.com: Data Mining, Simulation and Optimization in Your Web Browser

**SAS**
2–2:45pm | 371F
www.sas.com
Building and Solving Optimization Models with SAS

**JMP, a division of SAS**
2:45–3:30pm | 371F
www.jmp.com
JMP Pro: Top Features That Make You Say “Wow”!

**Turner**
4:35–5:20pm | 372B
www.turner.com
Analytics and Data Science at Turner

**DiDi Chuxing**
5:20–6:05pm | 372B
www.didichuxing.com
DiDi Chuxing will showcase its Internal Research Teams
SUNDAY, OCTOBER 22
An Introduction to Two-Stage Stochastic Mixed-Integer Programming
8–9:30am
Simge Kucukyavuz, University of Washington

Operations Research Approaches for Building Demand Response in a Smart Grid
11am–12:30pm
Miguel Anjos, Polytechnique Montreal

Easy Affine Markov Decision Processes: Properties and Applications
1:30–3pm
Matthew J. Sobel, Case Western Reserve University

MONDAY, OCTOBER 23
Introduction to Disaggregate Demand Models
8–9:30am
Michel Bierlaire, Ecole Polytechnique Fédérale de Lausanne

Humanitarian Logistics
11am–12:30pm
Bahar Yetis Kara, Bilkent University

Optimization Methods for Supervised Machine Learning: From Linear Models to Deep Learning
1:30–3pm
Katya Scheinberg, Lehigh University

Markov Decision Processes, AlphaGo, and Monte Carlo Tree Search: Back to the Future
4:30–6pm
Michael Fu, University of Maryland, College Park

TUESDAY, OCTOBER 24
Dynamic Ridesharing
7:30–9am
Fernando Ordonez, DII, Universidad de Chile

Quantitative Imaging System for Cancer Diagnosis and Treatment Planning: An Interdisciplinary Approach
10:30am–12noon
Teresa Wu, Arizona State University

Environmental Policy and Decision Analysis
12:15–1:45pm
Max Henrion, Lumina Decision Systems, Inc.

TUTORIALS IN OPERATIONS RESEARCH
The chapters are written by a diverse array of experts working across a variety of institutes. Their research covers a range of exciting topics, including OR/MS frontiers in mixed-integer programming, stochastic programming, and Markov decision processes; optimization and deep learning; O.R. approaches for biology, energy, and healthcare systems; and other emerging developments from traditional INFORMS fields.

As part of your INFORMS Registration you have exclusive access to this year’s TutORials volume, as well as past year’s issues. For more information visit: http://pubsonline.informs.org/series/educ
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GBCC – George R. Brown Convention Center | Hilton – Hilton Americas-Houston Hotel

**SUNDAY, OCTOBER 22**

- **Information Systems**
  - Hilton - 329, Level 3
  - GBCC - 329D, Level 3
  - 5:45–6:45pm

- **Auctions & Marketing Design Meeting**
  - Hilton - 350D, Level 3
  - GBCC - 350D, Level 3
  - 6:15–7:45pm

- **Aviation Applications**
  - Hilton - 351C, Level 3
  - GBCC - 351C, Level 3
  - 6:15–7:15pm

- **Decision Analysis Society Council**
  - Hilton - 310A, Level 3
  - GBCC - 310A, Level 3
  - 6:15–8:15pm

- **ENRE Section**
  - Hilton - 381B, Level 3
  - GBCC - 381B, Level 3
  - 6:15–7:15pm

- **Forum on Education (INFORM-ED)**
  - Hilton - 370A, Level 3
  - GBCC - 370A, Level 3
  - 6:15–7:15pm

- **Location Analysis Section**
  - Hilton - 362C, Level 3
  - GBCC - 362C, Level 3
  - 6:15–7:15pm

- **Manufacturing & Service Operations Society**
  - Hilton - Grand Ballroom A, Level 3
  - GBCC - Grand Ballroom A, Level 3
  - 6:15–7:15pm

- **Military Applications Society Board**
  - Hilton - 351D, Level 3
  - GBCC - 351D, Level 3
  - 6:15–7:15pm

- **Minority Issues Forum**
  - Hilton - 370B, Level 3
  - GBCC - 370B, Level 3
  - 6:15–7:15pm

- **Multiple Criteria Decision Making**
  - Hilton - 352C, Level 3
  - GBCC - 352C, Level 3
  - 6:15–7:15pm

- **Optimization**
  - Hilton - Grand Ballroom B, Level 3
  - GBCC - Grand Ballroom B, Level 3
  - 6:15–7:15pm

- **Railway Applications**
  - Hilton - 362F, Level 3
  - GBCC - 362F, Level 3
  - 6:15–7:15pm

- **Simulation**
  - Hilton - 362D, Level 3
  - GBCC - 362D, Level 3
  - 6:15–7:15pm

- **Telecommunications Section**
  - Hilton - 350B, Level 3
  - GBCC - 350B, Level 3
  - 6:15–7:15pm

- **Transportation Science & Logistics Society Board**
  - Hilton - 332B, Level 3
  - GBCC - Grand Ballroom A, Level 3
  - 6:15–7:15pm

- **Women in OR/MS**
  - Hilton - 360D, Level 3
  - GBCC - 360D, Level 3
  - 6:15–7:15pm

**MONDAY, OCTOBER 23**

- **PSOR**
  - Hilton - 343, Level 3
  - GBCC - 343, Level 3
  - 8–9:30am

- **Analytics**
  - Hilton - 352D, Level 3
  - GBCC - 352D, Level 3
  - 6:15–7:15pm

- **Applied Probability**
  - Hilton - 340A, Level 3
  - GBCC - 340A, Level 3
  - 6:15–7:15pm

- **Computing**
  - Hilton - 372C, Level 3
  - GBCC - 372C, Level 3
  - 6:15–7:15pm

- **Data Mining**
  - Hilton - 370F, Level 3
  - GBCC - 370F, Level 3
  - 6:15–7:45pm

- **Decision Analysis**
  - Hilton - 310A, Level 3
  - GBCC - 310A, Level 3
  - 6:15–8:15pm

- **e-Business**
  - Hilton - 360F, Level 3
  - GBCC - 360F, Level 3
  - 6:15–7:15pm

- **Health Applications**
  - Hilton - 320C, Level 3
  - GBCC - 320C, Level 3
  - 6:15–7:15pm

- **Military Applications Society Meeting/Reception**
  - Hilton - 351D, Level 3
  - GBCC - 351D, Level 3
  - 6:15–9:15pm

- **QSR**
  - Hilton - 371C, Level 3
  - GBCC - 371C, Level 3
  - 6:15–7:15pm

- **Revenue Management & Pricing Business Meeting**
  - Hilton - 342D, Level 3
  - GBCC - 342D, Level 3
  - 6:15–7:15pm

- **Social Media Analytics**
  - Hilton - 350F, Level 3
  - GBCC - 350F, Level 3
  - 6:15–7:15pm

- **Tech., Innovation Mgmt., & Entrepreneurship**
  - Hilton - 342B, Level 3
  - GBCC - 342B, Level 3
  - 6:15–7:15pm

- **TSL**
  - Hilton - Grand Ballroom A, Level 3
  - GBCC - Grand Ballroom A, Level 3
  - 6:15–7:15pm

- **Behavioral Operations Management**
  - Hilton - 361A, Level 3
  - GBCC - 361A, Level 3
  - 7:15–8:15pm

- **Revenue Management & Pricing Board**
  - Hilton - Grand Ballroom B, Level 3
  - GBCC - Grand Ballroom B, Level 3
  - 7:15–8:15pm

**TUESDAY, OCTOBER 24**

- **INFORMS Practice Section Membership**
  - Hilton - 339, Level 3
  - GBCC - 339, Level 3
  - 5–6:30pm

- **Financial Services**
  - Hilton - 328, Level 3
  - GBCC - 328, Level 3
  - 6:15–7:15pm

- **SpORts**
  - Hilton - 343, Level 3
  - GBCC - 343, Level 3
  - 6:15–7:15pm

- **Service Science Section**
  - Hilton - 351F, Level 3
  - GBCC - 351F, Level 3
  - 6:15–7:15pm

**UNIVERSITY RECEPITIONS**

**MONDAY, OCTOBER 23**

- **Texas A&M**
  - Hilton - 339, Level 3
  - 5:30–7:30pm

- **University of Florida**
  - Hilton - 328, Level 3
  - 6–7:30pm

- **Carnegie Mellon, Tepper School of Business**
  - Hilton - 343, Level 3
  - 6–8pm

- **London Business School**
  - Hilton - 327, Level 3
  - 6:30–9pm

- **Northwestern University**
  - Hilton - Lanier L, Level 4
  - 6:30–9pm

- **University of Texas at Austin**
  - Hilton - Lanier CF, Level 4
  - 7–9pm
SUNDAY, OCTOBER 22

- Information Systems  Hilton - 329, Level 3  5:45–6:45pm
- Auctions & Marketing Design Meeting  GBCC - 350D, Level 3  6:15–7:45pm
- Aviation Applications  GBCC - 351C, Level 3  6:15–7:15pm
- Decision Analysis Society Council  GBCC - 310A, Level 3  6:15–8:15pm
- ENRE Section  GBCC - 381B, Level 3  6:15–7:15pm
- Forum on Education (INFORM-ED)  GBCC - 370A, Level 3  6:15–7:15pm
- Location Analysis Section  GBCC - 362C, Level 3  6:15–7:15pm
- Military Applications Society Board  GBCC - 351D, Level 3  6:15–7:15pm
- Minority Issues Forum  GBCC - 370B, Level 3  6:15–7:15pm
- Multiple Criteria Decision Making  GBCC - 352C, Level 3  6:15–7:15pm
- Optimization  GBCC - Grand Ballroom B, Level 3  6:15–7:15pm
- Railway Applications  GBCC - 362F, Level 3  6:15–7:15pm
- Simulation  GBCC - 362D, Level 3  6:15–7:15pm
- Telecommunications Section  GBCC - 350B, Level 3  6:15–7:15pm
- Transportation Science & Logistics Society Board  GBCC - 332B, Level 3  6:15–7:15pm
- Women in OR/MS  GBCC - 360D, Level 3  6:15–7:15pm

MONDAY, OCTOBER 23

- PSOR  Hilton - 343, Level 3  8–9:30am
- Analytics  GBCC - 352D, Level 3  6:15–7:15pm
- Computing  GBCC - 372C, Level 3  6:15–7:15pm
- Data Mining  GBCC - 370F, Level 3  6:15–7:45pm
- Decision Analysis  GBCC - 310A, Level 3  6:15–8:15pm
- e-Business  GBCC - 360F, Level 3  6:15–7:15pm
- Health Applications  GBCC - 320C, Level 3  6:15–7:15pm
- Military Applications Society Meeting/Reception  GBCC - 351D, Level 3  6:15–9:15pm
- QSR  GBCC - 371C, Level 3  6:15–7:15pm
- Revenue Management & Pricing Business Meeting  GBCC - 342D, Level 3  6:15–7:15pm
- Social Media Analytics  GBCC - 350F, Level 3  6:15–7:15pm
- Tech., Innovation Mgmt., & Entrepreneurship  GBCC - 342B, Level 3  6:15–7:15pm
- TSL  GBCC - Grand Ballroom A, Level 3  6:15–7:15pm
- Behavioral Operations Management  GBCC - 361A, Level 3  7:15–8:15pm
- Revenue Management & Pricing Board  GBCC - Grand Ballroom B, Level 3  7:15–8:15pm

TUESDAY, OCTOBER 24

- INFORMS Practice Section Membership  Tejas Grill & Sports Bar  5–6:30pm
- Financial Services  GBCC - 362B, Level 3  6:15–7:15pm
- SpORts  Home Plate Bar & Grill  6–7pm
- Service Science Section  GBCC - 351F, Level 3  6:15–7:15pm

UNIVERSITY RECEPTIONS

MONDAY, OCTOBER 23
- Texas A&M  Hilton - 339, Level 3  5:30–7:30pm
- University of Florida  Hilton - 328, Level 3  6–7:30pm
- Carnegie Mellon, Tepper School of Business  Hilton - 343, Level 3  6–8pm
- London Business School  Hilton - 327, Level 3  6:30–9pm
- Northwestern University  Hilton - Lanier L, Level 4  6:30–9pm
- University of Texas at Austin  Hilton - Lanier CF, Level 4  7–9pm
HAPPENING IN THE CONVENTION CENTER:

- Keynotes
- Plenaries
- Tracks 1-83
- Tutorials/Technology Tutorials
- EXHIBIT HALL B3
  - INFORMS Registration
  - Exhibits
  - INFORMS Center
  - INFORMS Career Center
- Poster Sessions
- Coffee Breaks
- Informal Sessions

NETWORKING LOUNGE & TECHNOLOGY CENTER

STUDENT MONITORS
HAPPENING IN THE CONVENTION CENTER:

- Keynotes
- Plenaries
- Tracks 1-83
- O.R.
- Tutorials/Technology Tutorials

EXHIBIT HALL B3

- INFORMS Registration
- Exhibits
- INFORMS Center
- INFORMS Career Center
- Poster Sessions
- Coffee Breaks
- infORmational Sessions

EXHIBIT HALL B3 - STUDENT MONITORS
PRO BONO ANALYTICS
MICRO-VOLUNTEERING
INFORMS

Pro Bono Analytics has partnered with Star of Hope Mission, a community dedicated to meeting the needs of homeless men, women, and children. They encourage positive life changes through structured programs focusing on education, employment, life management, spiritual growth, and recovery from substance abuse.

We invite all Annual Meeting attendees to visit the INFORMS Center and volunteer a few minutes of their time to help build toiletry and hygiene kits that will be donated to Star of Hope Mission. Attendees will have the opportunity to receive a kit to take home, stop by, build a kit, and learn more about how INFORMS is making an impact in underserved communities through analytics.

Wall murals are a thing in Houston. So, make sure you take a self-guided tour of Houston’s best paint walls and graffiti murals taking some colorful selfies tagged with #informs2017! If you don’t make it out, join us in the Exhibit Hall to make our own INFORMS Houston mural. Coloring is the new meditation—take a brain break and show Houston some love.

We love our members and their amazing stories! Share a little something with your fellow members by adding to our “What’s Your Story?” wall in the Exhibit Hall. Based on the popular monthly feature highlighting our members, answer one or more questions about your story. We can’t wait to see the diversity of members and answers! Also, it’s a great photo op for your #informs2017 posts.

Need a professional headshot for a resume, LinkedIn profile, or business card? New this year, stop by the headshot station where you can sit with a professional photographer for no charge! The Professional Headshot Station will be located in the Exhibit Hall, to the right of booth #50.

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PRO BONO ANALYTICS MICRO-VOLUNTEERING

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We invite all Annual Meeting attendees to visit the INFORMS Center and volunteer a few minutes of their time to help build toiletry and hygiene kits that will be donated to Star of Hope Mission in support of their efforts. In the wake of Hurricane Harvey, it’s just one more way for us to give back and help make a difference in Houston as they rebuild after the storm. We’re grateful for the opportunity to assist Houston’s homeless population on their road to recovery—every bit helps. We hope that you take a moment to stop by, build a kit, and learn more about how INFORMS is making an impact in underserved communities through analytics.

COLORING WALL

Wall murals are a thing in Houston. So, make sure you take a self-guided tour of Houston’s best paint walls and graffiti murals taking some colorful selfies tagged with #informs2017! If you don’t make it out, join us in the Exhibit Hall to make our own INFORMS Houston mural. Coloring is the new meditation—take a brain break and show Houston some love.

WHAT’S YOUR StORy? STICKY WALL

We love our members and their amazing stories! Share a little something with your fellow members by adding to our “What’s Your StORy?” wall in the Exhibit Hall. Based on the popular monthly feature highlighting our members, answer one or several questions about yourself. We can’t wait to see the diversity of members and answers! Also, it’s a great photo op for your #informs2017 posts.

PROFESSIONAL HEADSHOTS

Need a professional headshot for a resume, LinkedIn profile, or business card? New this year, stop by the headshot station where you can sit with a professional photographer for no charge! The Professional Headshot Station will be located in the Exhibit Hall, to the right of booth #50.

Sponsored by AIMMS
SUNDAY, OCTOBER 22

WELCOME & PLENARY (10–10:50am)
GBCC - General Assembly B

Introduction
Brian Denton, University of Michigan,
INFORMS 2017 President
Bill Klimack, Chevron, 2017 Annual Meeting Chair

PLENARY

The Final Step in the Remarkable Journey of the Isoperimetric Problem: The Completion of Euler’s Approach
Dr. Richard Tapia, Rice University

Abstract: In this presentation, we give a brief overview of the remarkable life of the impactful isoperimetric problem. We identify three distinct classes of solution approaches that have been used throughout history: the Cartesian coordinate representation approach of Euler, the synthetic geometry approach of Steiner, and the parametric representation approach of Weierstrass. We say that one of our three classes of approaches has been completed when an appropriately short sufficiency proof for the isoperimetric problem has been constructed that belongs to this class of proofs. In a legendary work from 1744, Euler presented his contribution, establishing neither necessity nor sufficiency for this problem. This failure led Steiner in 1838 to propose his approach that gave only necessity and not sufficiency as he believed. The Steiner path was completed by Lawlor in 1998. Euler’s and Steiner’s failures led Weierstrass in 1879 to propose his approach, which did indeed lead to sufficiency but required a somewhat elaborate theory. The Weierstrass approach was completed in 1934 by Littlewood, Hardy, and Polya. The major contribution in this presentation is our completion of Euler’s approach. Our proof uses elementary tools.

OMEGA RHO

OMEGA RHO, the official Honor Society of INFORMS, was founded in 1976 to recognize superior scholarship and encourage leadership in operations research, management science, and related disciplines. The society has 40 active collegiate chapters, more than 5,000 student and faculty members, and is a member of the Association of College Honor Societies. In addition to sponsoring OMEGA RHO Distinguished Lectures at INFORMS Annual and International meetings, OMEGA RHO provides financial support to the annual INFORMS Colloquium. Honorary membership in OMEGA RHO is bestowed upon individuals who provide leadership and extraordinary support for the encouragement of operations research and management science through their professional activities.

MONDAY, OCTOBER 23

PLENARY (10–10:50am)
Hilton - Ballroom of Americas

Optimization: Past, Present, Future
Bob Bixby, Gurobi

Abstract: For the vast majority of business applications, optimization means linear and mixed-integer programming. Beginning with Dantzig’s simplex method in 1947, optimization experienced a slow, uneven period of development into the mid 1980s. Then, beginning in the late 1980s, developments ensued that completely transformed optimization and its applications, driven by truly remarkable performance improvements in the underlying solvers. What’s coming next may be even more exciting. Driven by an explosion in available business data, a new broad corporate focus on extracting value from that data, increased computing power, and the continually expanding power of optimization solvers, optimization promises to become an indispensable tool in managing the modern enterprise.

PLENARY - OMEGA RHO (3:15–4pm)
GBCC - General Assembly B

Sports Scheduling Meets Business Analytics
Mike Trick, Carnegie Mellon University in Qatar

Abstract: Over the last 20 years, the ability of operations research techniques to create practical sports schedules has increased tremendously. Some of this increased ability is due to faster computers and better underlying optimization software. Increased understanding of the unique aspects of sports scheduling optimization has also played a role. This is allowing the integration of predictive and prescriptive analytics resulting in schedules that are not just playable but are also profitable.

KEYNOTE - UPS George D. Smith Prize (3:10–4pm)
GBCC - Grand Ballroom B

U.S. Air Force Academy O.R. Program
Awarded 2017, UPS George D. Smith Prize
Brig Gen Andy Armacost, Jim Lowe, Captian Drew Ives, & 2Lt Brady Gartman

Abstract: The U.S. Air Force Academy’s unique transdisciplinary undergraduate program exposes more than 50 percent of all students to at least one O.R. course, utilizes a year-long applied senior course for majors,
MONDAY, OCTOBER 23 (Continued)

and leverages its military faculty that rotate between analyst and teaching jobs to create a rich environment for learning and practice while actively advancing the Academy’s core mission "to educate, train, and inspire men and women to become officers of character motivated to lead the United States Air Force in service to our nation."

UPS George D. Smith Prize

The UPS George D. Smith Prize recognizes an academic department or program for effective and innovative preparation of students to be good practitioners of O.R., management science, or analytics. The UPS George D. Smith Prize is created in the spirit of strengthening ties between industry and the schools of higher education that graduate young practitioners of operations research.

The UPS George D. Smith Prize is named in honor of the late UPS Chief Executive Officer who was a champion of operations researchers at a leading Fortune 500 corporation. UPS has generously underwritten the award in his memory. Apply for 2018 Prize by October 31.

KEYNOTE - IFORS Distinguished Lecture (3:10–4pm)
GBCC - Grand Ballroom C

Biased Random-Key Genetic Algorithms: Components, Evolutionary Dynamics & Applications
Celso C. Ribeiro, Universidade Federal Fluminense

Abstract: A biased random-key genetic algorithm (BRKGA) is a general search procedure for finding optimal or near-optimal solutions to hard combinatorial optimization problems. It is derived from the random-key genetic algorithm of Bean (1994), differing in the way solutions are combined to produce offspring. BRKGAs have three key features that specialize genetic algorithms. First, a fixed chromosome encoding using a vector of N random keys over the real interval [0, 1], where the value of N depends on the instance of the optimization problem. Second, a well-defined evolutionary process adopting a parameterized uniform crossover to generate offspring and thus evolve the population. Third, the introduction of new chromosomes called mutants in place of the mutation operator usually found in evolutionary algorithms. Such features simplify and standardize the procedure with a set of self-contained tasks from which only one is problem-dependent: that of decoding a chromosome, i.e., using the keys to construct a solution to the underlying optimization problem, from which the objective function value or fitness can be computed. In this talk, we review the basic components of a BRKGA and introduce a framework for quick implementations of BRKGA heuristics. We then illustrate the application of this framework to a few case studies in network routing, load scheduling, and data mining problems. We conclude with a brief review of other domains where BRKGAs have been applied.

KEYNOTE (3:10–4pm)
GBCC - General Assembly B

Systems Approach to Managing Risk in Human Spaceflight Missions
Nancy Currie-Gregg, Texas A&M (formerly NASA)

Abstract: Human spaceflight is an inherently risky endeavor. From the first human space exploration missions to recent problems on the International Space Station, NASA has faced many challenges and has relied on creative and innovative engineering solutions to complete the mission and safely return the crew. However, over the past 50 years, NASA has also experienced three fatal accidents resulting in the loss of 17 crewmembers. Addressing the complex interdependencies and systemic causes associated with these tragedies, including those associated with organizational culture and management, provides insight to the advantages of a systems approach to managing risk in high reliability organizations.

KEYNOTE (3:10–4pm)
GBCC - General Assembly A

INFORMing Process Improvement and Patient Safety in Healthcare
Victoria Jordan, Emory

Abstract: Because of my previous position as Executive Director, Performance Improvement at the University of Texas (UT) MD Anderson Cancer Center, the conference committee asked me to share information about and the history behind the Texas Medical Center and MD Anderson. I will also discuss my role at UT as Chancellor’s Fellow for Systems Engineering and how our team was able to establish partnerships between university faculty (in Business and Engineering) and healthcare professionals to spread the use of operations research and management science in healthcare. I will share some exciting accomplishments from those efforts as well as more general applications across the healthcare industry. I hope you will leave this session with a new understanding of the challenges in healthcare and an interest in using O.R. and management science to address some of these challenges.
TUESDAY, OCTOBER 24

PLENARY (10–10:50am)
Hilton - Ballroom of Americas

How Analytics Powers the Uber Marketplace
Robert Phillips, Uber Technologies

Abstract: Uber, the leading ride-sharing company in the world, faces the challenge of efficiently managing both sides of a two-sided market in which it has no direct control over demand or supply. Challenges include determining real-time prices for both riders and drivers, matching riders and drivers, and providing signals to drivers that incentivize efficient movement. We describe how Uber uses a variety of approaches from O.R., management science, statistics, economics, and machine learning to address these challenges in a dynamic temporospatial marketplace.

KEYNOTE (3:40–4:30pm)
GBCC - General Assembly B

Optimization and Analytics Applications in the Oil and Gas Industry
Cassandra McZeal, ExxonMobil

Abstract: The oil and gas industry is going through transformational times. The industry is faced with challenges in achieving its goals of efficient and environmentally responsible operations, production optimization, and capital cost reduction.

The oil and gas industry is often divided into three sectors: upstream, midstream, and downstream. The upstream is focused on activities related to the exploration and production of hydrocarbons, including searching for subsurface accumulation of hydrocarbons, drilling wells, and the production of those resources. The downstream sector is concerned with the conversion of produced raw hydrocarbons into useful and useable products, which includes refining of petroleum crude oil, the processing of natural gas, and the distribution of refined products, such as gasoline, jet fuel, diesel oil, heating oil, fuel oils, lubricants, and other petrochemical products. The midstream sector comprises the transportation, storage, and marketing of crude oil, refined petroleum products, natural gas, and petrochemicals. Transportation and logistics are carried out through a variety of modes including pipelines, rail, barges, oil tankers, and trucks.

Optimization and analytics technologies play a vital role in enabling the oil and gas industry to achieve the above objectives. In this talk, I will review selective applications of optimization technology in the Oil and Gas Sector with focus on problem modeling and algorithmic development in all three sectors.

KEYNOTE (3:40–4:30pm)
GBCC - Grand Ballroom B

Looking to the Future by Celebrating the Past: Operations Research and Revenue Management in the Travel Industry
Andy Boyd, University of Houston

Abstract: Today, the travel industry relies on sophisticated optimization algorithms working on vast data sets to operate profitably, which wasn’t always the case. Commercial airlines took flight long before the advent of the computer. Inspired by the need to keep record of who was flying where, airlines were some of the earliest adopters of technologies to streamline the process, including a forerunner of the Internet. Once armed with historical booking records, visionary leaders realized how this information could be used as a competitive weapon for planning, scheduling, and pricing. From gumball dispensers to modern day revenue management systems, we trace the history of travel industry O.R. in general, and revenue management practices in particular.

KEYNOTE (3:40–4:30pm)
GBCC - General Assembly C

Super-Human Strategic Reasoning: Libratus Beats Top Pros in Heads-Up No-Limit Texas Hold’em
Tuomas Sandholm, Carnegie Mellon

Abstract: Poker has been a challenge problem in game theory, O.R., and AI for decades. No program had been able to beat top players in large poker games. In January 2017, our AI, Libratus, beat a team of four top specialist pros in the main benchmark, heads-up no-limit Texas hold’em, which has $10^{161}$ decision points. Libratus is powered by new algorithms in each of its three main modules: computing approximate Nash equilibrium strategies before the event; endgame solving during play; and fixing its own strategy to play even closer to equilibrium based on what holes the opponents have been able to identify and exploit. The algorithms are domain-independent and have applicability to a variety of imperfect-information games such as negotiation, strategic pricing, cybersecurity, auctions, finance, and steering biological adaptation and evolution (e.g., for medical treatment planning). Joint work with PhD student Noam Brown.
TUESDAY, OCTOBER 24 (Continued)

KEYNOTE - Franz Edelman Award (3:40–4:30pm)
GBCC - General Assembly A

Revenue Management Delivers Significant Revenue Lift for Holiday Retirement
Ahmet Kuyumcu, Prorize LLC & Holiday Retirement

Abstract: Revenue Management (RM) is a business discipline leveraging management science and information technology to drive bottom-line profitability. Holiday Retirement (Holiday) is the largest private owner and operator of independent living communities for seniors in the United States with over $1 billion annual revenue. Holiday partnered with Prorize LLC to change its pricing process completely using advanced revenue management (RM) algorithms starting in 2011. Since it fully deployed the state-of-the-art system in 2014, Holiday has increased its revenue from new rentals by $88 million, or approximately nine percent.

FRANZ EDELMAN AWARD
The Franz Edelman Award for Achievement in Operations Research and the Management Sciences calls out, recognizes, and rewards outstanding, high impact applications of OR/MS. Each year, six finalists compete in the “Super Bowl” of OR in practice. Apply for the 2018 Award by October 27.

KEYNOTE - Wagner Prize Winner (3:40–4:30pm)
GBCC - Grand Ballroom A

Abstract: The Daniel H. Wagner Prize for Excellence in Operations Research Practice emphasizes the quality and coherence of the analysis used in practice. Dr. Wagner strove for strong mathematics applied to practical problems, supported by clear and intelligible writing. This prize recognizes those principles by emphasizing good writing, strong analytical content, and verifiable success practices.

WAGNER PRIZE
The Daniel H. Wagner Prize is awarded for a paper and presentation that describe a real-world, successful application of operations research or advanced analytics. The prize criteria emphasize innovative, elegant mathematical modeling and clear exposition.

The competition sessions will be held Monday, October 23, in the George R. Brown Convention Center, 332E beginning at 11am.

WEDNESDAY, OCTOBER 25

KEYNOTE (9:40–10:30am)
GBCC - Grand Ballroom B

A Probabilistic Theory of Deep Learning
Rich Baraniuk, Rice University

Abstract: A grand challenge in machine learning is the development of computational algorithms that match or outperform humans in perceptual inference tasks that are complicated by nuisance variation. For instance, visual object recognition involves the unknown object position, orientation, and scale in object recognition while speech recognition involves the unknown voice pronunciation, pitch, and speed. Recently, a new breed of deep learning algorithms have emerged for high-nuisance inference tasks that routinely yield pattern recognition systems with near- or super-human capabilities. But a fundamental question remains: Why do they work? Intuitions abound, but a coherent framework for understanding, analyzing, and synthesizing deep learning architectures has remained elusive. We answer this question by developing a new probabilistic framework for deep learning based on the Deep Rendering Model: a generative probabilistic model that explicitly captures latent nuisance variation. By relaxing the generative model to a discriminative one, we can recover two of the current leading deep learning systems, deep convolutional neural networks and random decision forests, providing insights into their successes and shortcomings, a principled route to their improvement, and new avenues for exploration.

KEYNOTE (9:40–10:30am)
GBCC - Grand Ballroom A

Smarter Tools for (Citi)Bike Sharing: Cornell Rides Tandem with Motivate
David Shmoys & Shane G. Henderson

Abstract: Cornell’s School of Operations Research and Information Engineering (ORIE) has been working with the bike-sharing company Motivate with an emphasis on its New York system Citi Bike since it began operations in 2013. Cornell ORIE provides data analysis and advice about strategy and operations to Motivate, which operates most of the leading bike-sharing programs in the United States. We will describe a suite of models and algorithms that provide data-driven decision-making tools not just for operations but also for strategic system planning.

Joint work that is part of the doctoral dissertations of Daniel Freund, Nanjing Jian, and Eoin O’Mahony, and with contributions from many other students.
AIMMS
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AIMMS is an innovative technology company with offices in Europe, the US 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
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Amazon When Amazon.com launched in 1995, it was with the mission “to be Earth’s most customer-centric company, where customers can find and discover anything they might want to buy online, and endeavors to offer its customers the lowest possible prices.” This goal continues today, but Amazon’s customers are worldwide now, and have grown to include millions of consumers, sellers, content creators, and developers & enterprises. Each of these groups has different needs, and we always work to meet those needs, innovating new solutions to make things easier, faster, better, and more cost-effective.

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www.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 of 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.
www.artelys.com

Artelys provides decision-support solutions through numerical optimization and analytics technologies with worldwide offices. The high qualified consultants offer their expertise in the energy & environment, logistics & transportation, telecommunications, finance and defense sectors. The company also develops and supports a comprehensive portfolio of efficient and robust optimization tools such as Artelys Kalis, FICO Xpress Optimization suite, Knitro, and AMPL, and offers Artelys Crystal suite, a set of user-friendly software dedicated to the optimization of energy and transportation systems. Artelys provides comprehensive and flexible solutions from functional analysis and organizational architecture design to implementation of solutions and operational tools.

ARUNDO
www.arundo.com

ARUNDO Arundo is an analytics company delivering data-intensive, business-backed use cases across the oil & gas value chain through their cloud platform. The company’s proprietary “models deployment framework” allows for rapid delivery of machine learning algorithms without the overhead of ITdevelopment, shortening the time-to-value for data science teams. The company services multiple IOCs and NOCs, optimizing asset performance and boosting productivity with machine learning. Arundo will share real-world examples from their client base as well as lessons learned in delivering machine learning in oil & gas.

Bentley University
www.bentley.edu

Bentley University is one of the nation’s leading business schools, dedicated to preparing a new kind of business leader and one with deep technical skills. We have been a leader in the advanced study of analytics, providing the valuable skills needed to succeed in the field. With two graduate programs in analytics, you can master information, integrate it into successful business practices, and communicate the results like never before.

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Booth #28
www.artelys.com

Artelys provides decision-support solutions through numerical optimization tools. The company also develops and supports a comprehensive portfolio of efficient and robust optimization tools such as Artelys Kalis, FICO Xpress Optimization suite, and AMPL. Artelys is a strategic partner of the INFORMS Computing Society.

Booth #18
www.elsevier.com/social-sciences/decision-sciences

Elsevier is a global information analytics company publishing leading journals in OR/MS and Decision Sciences, including *European Journal of Operational Research*, *Computers & Operations Research*, and *Omega: International Journal of Management Science*. Come to the Elsevier booth #18 to find out more, including how to use Elsevier’s researcher-centric tools to develop your research. Want to know more now? Visit elsevier.com/decision-sciences. To find out more about what Elsevier has to offer at INFORMS, go to elsevier.com/exhibitions-update/informs.

Booth #1 & 2
www.fico.com

FICO (NYSE: FICO) powers decisions that help people and businesses around the world prosper. Founded in 1956 and based in Silicon Valley, the company is a pioneer in the use of predictive analytics and data science to improve operational decisions. FICO holds more than 165 U.S. and foreign patents on technologies that increase profitability, customer satisfaction, and growth for businesses in financial services, telecommunications, healthcare, retail, and many other industries. Using FICO solutions, businesses in more than 100 countries do everything from protecting 2.6 billion payment cards from fraud, to helping people get credit, to ensuring that millions of airplanes and rental cars are in the right place at the right time.

Booth #6
www.didichuxing.com

DiDi Chuxing is the world’s leading mobile transportation platform. The company offers a full range of mobile tech-based mobility options for nearly 400 million users. As many as 20 million rides are completed on DiDi’s platform on a daily basis, making DiDi the world’s second largest online transaction platform. DiDi acquired Uber China in August 2016. DiDi is committed to working with communities and partners to solve the world’s transportation, environmental and employment challenges using big data-driven deep-learning algorithms that optimize resource allocation. In 2016, DiDi was named one of the World’s 50 Smartest Companies by MIT Technology Review.

Booth #27
www.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 used as the main textbook in academic courses in some of the finest universities and research institutions in the world.
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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 adapt quickly to new situations. Come to our booth to learn more about GAMS or ask for an evaluation license. You can also visit our technology workshop or software demo.

IFORS
www.ifors.org

The International Federation of Operational Research Societies (IFORS) is an umbrella organization comprising the national Operations Research societies of over 45 countries from four geographical regions: Asia Pacific, Europe, North America, South America. Total membership is over 30,000. IFORS’ mission is to promote Operations Research as an academic discipline and profession.

Gurobi Optimization
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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 of 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.

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Ivey Publishing is the leader in providing business case studies with a global perspective. With over 40,000 products in our library, Ivey Publishing adds more than 400 classroom-tested case studies each year. Virtually all Ivey cases have teaching notes. Clear, concise, and current, Ivey cases are lauded by the academic community as meeting the rigorous demands of management education by responding to the ever changing needs of business and society. Meet with one of our case experts on how to publish with us and how you can integrate world-class cases into your curriculum.

IBM
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IBM 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. Visit the IBM Advanced Analytics booth to learn more about our family of offerings.

IEOM
www.ieomsociety.org

IEOM Society International is a 501(c)(3) nonprofit corporation. Its core purpose is to globally foster critical thinking and its effective utilizations in the field of Industrial Engineering (IE) and Operations Management (OM) by providing means to communicate and network among diversified people motivated by similar interests. IEOM provides means to communicate and network among people enthused with similar interests through association services, conferences, seminars, workshops, student chapters, professional chapters, journals, certification, awards and recognition across the globe, and illustrative research publications to disseminate the earned knowledge and experience.

LINDO Systems, Inc
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LINDO Systems offers three products hooked to industrial strength solvers for linear, integer, stochastic, NLP, and global optimization. LINGO includes a powerful modeling language and convenient data options to make building models faster and easier. What'sBest! allows you to build large optimization models in Excel. Models are easy to build and understand for anyone comfortable within Excel. LINDO API allows you to plug the power of the LINDO solvers right into customized applications that you have written. Find out about the latest solver enhancements and pick up a full capacity evaluation license to try or a free educational research license.

Lumina Decision Systems
www.lumina.com

Lumina Decision Systems develops innovative software for analytics and decision support, notably the Analytica suite of products, about which PC Week said “Everything that's wrong with the common spreadsheet is fixed in Analytica.” Lumina also provides training and consulting to help organizations build effective decision tools. Lumina has won the Decision Analysis Practice Award from the INFORMS Decision Analysis Society and Society for Decision Professionals for the year’s best application of decision analysis.
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MIT Sloan  
www.mit Sloan.mit.edu/master-of-business-analytics

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 that seeks to provide students will real-world data science challenges.

North Carolina State University  
www.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.

Optimization Direct Inc.  
www.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.

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Responsive Learning Technologies  
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engineering.buffalo.edu/industrial-systems.html

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University of Arkansas
http://engineering.ualr.edu/academics/distance-education.php

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