

Retsef Levi - Curriculum Vitae

**J. Spencer Standish (1945) Professor of Operations Management,
MIT Sloan School of Management (Operations Management Group)**

PERSONAL

Date of birth: March, 1971

Place of birth: Israel

Languages: Hebrew - mother-tongue; English - fluent, at mother-tongue level;
Arabic – basic + level

Citizenship: Israel and U.S.

Contact:

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EDUCATION

Cornell University

Ph.D. in Operations Research (ORIE Department)

January 2002 – July 2005

GPA: 4.2368/4.3

Tel-Aviv University

B.Sc. in Mathematics, trend of Operation Research

1996-1997 & 1999-2001

Final Grade: 96 (out of 100), Summa cum Laude

B.Sc. (studies were part of service in the IDF (Israeli Defense Forces)):

First academic year completed: *1996-1997*

Back to active service upon requests from IDF: *1997-1999*

Second and third academic years completed: *1999-2001 (graduated July 2001)*

DOCTORAL THESIS

Co-Advisors: Robin Roundy and David Shmoys

Minor Advisors: James Renegar (Applied Math) and Shane Henderson (Applied probability)

Thesis: *"Computing Provably Near-Optimal Policies for Stochastic Inventory Control Models"*
under the supervision of Robin Roundy and David Shmoys

RESEARCH INTERESTS

- Healthcare management
- Food and agriculture supply chains
- Food safety
- Manufacturing analytics
- Cybersecurity
- Risk management
- Supply chain and inventory management
- Revenue management and pricing
- Multistage stochastic optimization
- Data-driven algorithms
- Combinatorial optimization

MIT SLOAN FACULTY IN THE SAME FIELD

Operations Management Group:

Professor Steven Eppinger, Professor Vivek Farias, Professor Charles Fine, Professor Stephen Graves, Professor Georgia Perakis, Operations Research Group, Associate Professor Karen Zheng, Associate Professor Nikos Trichakis, Assistant Professor Jonas Jonasson, Assistant Professor Negin Golrezaei, Assistant Professor Joann de Zegher

NON-MIT EMPLOYMENT

Feinberg Fellow, Weizmann Institute for Science

Israel, *July 2013 – July 2014*

Herman Goldstine Postdoctoral Fellowship in the Department of Mathematical Sciences, IBM T.J. Watson Research Center

Yorktown Heights, NY, *July 2005–August 2006*

OR&IE Department, Cornell University (Instructor of several courses)

Ithaca, NY, *January 2002–July 2005*

Business Development Consultant, Wisair Inc.

Israel, *2001*

Wisair is an Israeli hi-tech start-up company (of the RAD Group) which develops wireless solutions based on Ultra Wide Band (UWB) technology. The position included initiating and leading the potential market analysis and business development: initiating and promoting three major funding channels from the European Commission (1m Euro), an Israeli venture capital company (\$5m) and the Israeli Chief Scientist.

Officer in the Israeli Defense Forces (IDF)

1990-2001

Served as an Officer in an elite unit of the Intelligence Corps of the IDF since 1991. Filled different positions throughout the years, which involved highly complicated analysis of interdisciplinary projects. Work was identified by high pressure and required high level of creativity and original thinking.

Intelligence Analyst Officer (analyzing technical intelligence material)

1991-1994

Captain, Head of Section

-Supervised 8 soldiers and officers

-Designated as an extra merit officer (received prize from IDF Intelligence Department)

1994-1996

Major, Head of Section

-Supervised more than 25 soldiers and officers

-Received prize for "Creative Thinking" (Awarded by Head of the IDF Intelligence Corps)

1997-1999

Tel-Aviv University

1999-2001

MIT EMPLOYMENT

J. Spencer Standish (1945) Professor of Operations Management

July 2013

J. Spencer Standish (1945) Associate Professor of Operations Management

July 2010– June 2013

Associate professor (with tenure)

July 2009–June 2013

Affiliated with Operations Research Center (ORC) and the Computations for Design and Optimization (CDO) programs at MIT

September 2006

Robert N. Noyce Career Development Professor

Assistant Professor of Management

-Affiliated with Operations Research Center (ORC) and Computations for Design and Optimization (CDO) program at MIT

September 2006-June 2009

PROFESSIONAL ACTIVITIES

MIT Activities

- Member: Organizing committee of the 2019 INFORMS Healthcare Conference hosted by MIT
- Member: MIT faculty committee to recommend what the required institute future computing infrastructure and policies are
- Faculty Director: MIT Sloan Food Supply Chain Analytics and Sensing Initiative, 2018 –
- Faculty Co-Director: MIT Sloan Health System Innovation Initiative, *July 2015- June 2019*
- MIT Sloan Faculty Co-Director: Leaders for Global Operations Program, 2015-
- Co-Chair of MIT Committee: (tasked with proposing what MIT should do in the area of Health), 2017-2018
- Participant: Massachusetts Economics Delegation to Israel (with the governor of Massachusetts), *December 2016*
- Co-Chair: MIT Sloan Initiative of Health System Innovation Conference “MIT Health Innovations: Technology, Analytics, and Systems”, *October 2016*
- Member: MIT Sloan Faculty Committee to develop Masters in Analytics program, 2015- 2016
- Co-Chair: 2013 MIT Healthcare Innovation Conference, *December 2013*
- Member: institute committee for explaining a strategic relationship with Kaiser Permanente, 2013
- Co-Lead Faculty: institute effort to develop a strategic relationship with the FDA (materialized into a contract – *see awards section below), 2013
- Teacher: Sloan Executive Programs:
BP Project Academy, BP Operations Academy – Term director, BP Group Leader Development Program, Aker, Vale and Operations Strategy 2- Day open enrollment program
- Co-Lead (with Bob Gibbons): customized Executive Education Program for Anesthesia Departments at Harvard Medical School (MGH, BIDMC, BWH and Children’s Hospital) and other Academic Medical Centers in Massachusetts, 2012
- Lead: development and launch of new Healthcare Certificate (launched in AY - 2013), currently serve as Academic Director of the certificate

- Co-Chair (with Tom Kochan) and Organizer: half-day symposium at Sloan, jointly with Partners Healthcare Systems: "Collaborating to Control Costs and Deliver Quality: The Role of Organization Design and Capabilities in Health Care Policy" (participants included: MA Governor, Deval Patrick, MIT President, Susan Hockfield, CEO & President of Partners Healthcare Systems, Gary Gottlieb and many healthcare industry leaders), *May 18, 2012*
- Member:
 - Non-degree Executive Education Committee, *2011-2012*
 - Committee that developed the "Enterprise Management" MBA track (served as Faculty Lead of track), *2012-2014*
 - 8 Sloan promotion committees, *2010-2014*
- Participant, taught mock classes: Sloan MBA Admin Day, *2010, 2011, 2012*
- Member:
 - Sloan Fellows and Executive MBA Program Committee, *2010-2012*
 - Sloan PhD Committee, *2010-2011*
 - Search Committee of the Operations Management Group, *2009-2010, 2010-2011, 2011-2012*
- Member: Professional Standards Committee at Sloan, *2009-2010*
- Participant: Sloan Alumni Weekend (gave lecture), *2011, 2012*
- Participant: faculty panel for new MIT recruits, September 2011
- Affiliated faculty: Operations Research Center (ORC)
 - Member of ORC PhD Admission Committee, *2007, 2008, 2010, 2011*
 - Member of several General Exams Committees for ORC PhD students
 - Participant in committee that reviewed the ORC curriculum and student placement
- Affiliated faculty: Leader for Global Operations (LGO) Program
 - Advisor for students, faculty liaison to MGH
- Affiliation with: NewDigs Center at MIT (received funding for a PhD student for *2012-2014*)
- Meet with visitors of: the Office of Industry Liaison at MIT
- Member: 2009 MSOM Conference Organizing Committee (took place at MIT)
- Participant in admissions process for: Computation for Design and Optimization (CDO) Master Program

Other Activities

- Member:
 - IPCO Conference Committee, *2019*
 - MSOM Health Care SIG Conference Committee, *2017, 2018*
 - Health Care Operations Management Special Interest Group (SIG) Paper Selection Committee, *2013*
- Participant: National Committee of the American Association of Medical Colleges (AAMC) to develop system-thinking curriculum in resident programs
- Stream Chair: EuroINFORMS XXVI, *2013*
- Chair: Special Interest Group (SIG), Health Care Operations Management Conference (part of the 2011 Manufacturing & Services Operations Management (MSOM) Society Conference), *June 2011*
- Associate Editor:
 - Operations Research*, December 2011-January 2018
 - Management Science*, January 2009-January 2014
 - Mathematics of Operations Research*, March 2009-December 2015
 - Naval Research Logistics*, May 2009-2018

- Area Editor: *Operations Research Letters*, January 2009-December 2011
- Associate Editor: *Surveys of Operations Research and Management Science*, May 2009-December 2010
- Referee:
 - *Mathematics of Operations Research*
 - *Operations Research*
 - *Management Science*
 - *Manufacturing and Service Operations Management (MSOM)*
 - *Naval Research of Logistics*
 - *Discrete Mathematics*
 - *European Journal of Operations*
 - *Research, IEEE Transactions*
 - *Food Policy*
- Judge:
 - 2006, 2007 and 2008 MSOM Student Paper Competitions
 - 2008, 2009 and 2012 Nicholson Student Paper Competition
- Participant: National Science Foundation (NSF) panel, 2008, 2009, 2010, 2011
- Inventory Cluster Chair: INFORMS, 2007

GRANTS AND AWARDS

2019

- Walmart Foundation Award: “Systemic Risk Management of Food Supply Chains in China” (\$7.5M), lead PI (with other PIs: Yasheng Huang, Stacy Springs, Tony Sinskey, Michael Strano, Tauhid Zaman and Karen Zheng), duration: October 2019- October 2021
- CSAIL Alliance Grant: “Towards Evidence-based Cyber-Risk Assessment – A Systematic Data Analytics Approach” (\$150K) duration: 2019 –2021
- World Wildlife Foundation: “Matching Local, Wasted Agriculture Produce to Unmet Demand: A Systemic Approach” (\$50K) duration: 2019

2018

- Sponsored Research Target: “Sorting Problems in Omni-Channel Settings” (\$208K), Co-PI with Vivek Farias, duration: September 2018-August 2020
- Sponsored Research Target: “Sorting Problems in Omni-Channel Settings” (\$208K), Co-PI with Vivek Farias, duration: September 2018-August 2020
- FDA Grant: “Smart Data Analytics for Risk Based Regulatory Science and Bioprocessing Decisions” (\$4.9M), Co-PI with Tony Sinsky, Stacy Springs and Richard Braatz, duration: September 1, 2018–August 31, 2021
- TimeSense MIT grant: “Machine Learning for Manufacturing” (\$200K), Co-PI with Duane Boning, duration: 2018-2019

2017

- MISTI, MIT-Israel Award: An Innovative Computational Framework for Dynamic Assortment Planning” (\$23K), lead PI with Co-PI Danny Segev (Haifa University, Israel)
- Hainan Airlines Gift: “Risk management of food in China” (\$2.5M), duration: 2017- 2022

2016

- Walmart Foundation Award: “Systemic Risk Management of Food Supply Chains in China” (\$7.5M), lead PI (with other PIs: Yasheng Huang, Stacy Springs, Tony Sinskey, Michael Strano, Tauhid Zaman and Karen Zheng), duration: October 2016-October 2021
- Harold W. Kuhn Award: annual prize which recognizes an exceptional paper, published in *Naval Research Logistics* (NRL) for three years. Awarded to: “Maintenance Scheduling for Modular Systems: Modeling and Algorithms” with Jack Muckstadt (Cornell), Danny Segev (Univ. of Haifa) and Eric Zarybnisky (U.S. Air Force)

2015

- NSF Award: “An Innovative Optimization and Computational Framework for Assortment Problems under Consider-then-Rank Choice Models” (\$300K) with Vivek Farias, duration: September 2015-August 2018

- Abdul Latif Jameel World Water and Food Security LAB MIT Award: “A Data- Driven Approach to Managing Food Safety in Global Supply Chains” (\$200K) with Tauhid Zaman and Karen Zheng, *duration: 2015-2017*

2013

- Moore Foundation Award: (as part of a Beth Israel Deaconess Medical Center team) “Optimizing ICU Safety through Patient Engagement, System Science and Information Technology” (\$5M), *duration: 2013-2014*
- Food and Drug Association (FDA) Contract Award: “A Systematic Approach to Addressing Nontraditional Adulteration of FDA-Regulated Food and Drug Products and Ingredients Emanating from the Global Supply Chain” (\$2.61M) with Stacy Springs and Tony Sinskey (MIT), *duration: October 2013-September 2016*
- Daniel M. Wagner Prize for Excellence in Operations Research Practice

2012

- “Jamieson Prize for Excellence in Teaching”: Sloan School of Management, MIT
- First prize: “Best Case Competition” in the “First Case Writer” category by the European Case Clearing House (ECCH)
- British Petroleum (BP) grant: “Managing Risk in Contractors and Suppliers Networks – Models, Data and Decisions” (\$110K) with Georgia Perakis (MIT), *duration: January 2012-December 2012*
- AFOSR Grant: “An Optimization Framework for Air Force Logistics Models” (\$612k) with Tom Magnanti (MIT), *duration: July 2011-June 2014*

2010

- Singapore-MIT Alliance (SMA): Data-Driven Algorithms (\$70k) with Georgia Perakis (MIT), *duration: July 2010-June 2012* *in 2011: grant extended for 1 year with additional \$60K

2009

- NSF CAREER Award: “New Algorithmic Approaches to “Computationally Challenging Stochastic Supply Chain and Revenue Management Models” (\$400K), *duration: 2009-2014*

2008:

- “Optimization Prize for Young Researchers”: awarded by the INFORMS Optimization Society: “A 2-Approximation Algorithm for Stochastic Inventory Control Models with Lost-Sales,” Retsef Levi, Ganesh Janakiraman and Mahesh Nagarajan
- MIT Sloan Outstanding Teaching Award
- AFOSR Grant: “An Optimization Framework for Air Force Logistics Models” (\$522k), with Tom Magnanti, *duration: 2008-2010*
*supplemented by additional \$80k: *November 2009*
- Singapore-MIT Alliance (SMA): “Data-Driven Algorithms” (\$160k) with Georgia Perakis (MIT), *duration: 2008-2010*

2007

- NSF Grant DMS-0732175: MSPA-MCS, Collaborative Research: “Algorithms for Near-Optimal Multistage Decision-Making Under Uncertainty: Online Learning from Historical Samples” (172, 330), with David Gamarnik (MIT), David Shmoys and Paat Rusmevichientong (Cornell University) and Tim Huh (Columbia University), *duration: 2007-2010*
- IBM Faculty Award: (\$15K) Awarded by the Department of Mathematical Sciences, IBMT.J. Watson Research Center, Yorktown Heights, NY

2006

- MIT Buchsbaum Grant: (\$50K)

2005

- IBM Herman Goldstine Postdoctoral Fellowship: Department of Mathematical Sciences, T.J. Watson Research Center, Yorktown Heights, NY

2004

- First Prize: MSOM Student Paper Competition

2001

- Award for Excellence: BA Studies at the School of Mathematics in Tel-Aviv University

1999

- Head of Intelligence Corps for "Creative Thinking" Prize: designated as an Extra Merit Officer (by the Head of the IDF Intelligence Corps) 1996

PROFESSIONAL MEMBERSHIPS

- Institute of Operations Research and Management Science (INFORMS)
- Manufacturing and Service Operations Management (MSOM)
- Applied Probability Society (APS)
- Mathematical Programming Society (MPS)

TEACHING

Courses

15.734 (Operations Management) - MIT Executive MBA Program
MIT Sloan School of Management – *Spring 2011, 2012, 2013, 2015, 2017, 2018, 2019*

15.761 (Introduction to Operations Management) –MIT Sloan School of Management MBA Program – *Spring 2011, 2012, Fall 2012, 2014, 2015, 2016*

15.731 (Risk Management) – MIT Executive MBA Program & Sloan Fellows Program
MIT Sloan School of Management - *Spring 2012, 2013, 2015, 2016, 2017, 2018, 2019*

15.S03, 15.967, 15.767, 15.777 (Healthcare Lab: Introduction to Healthcare Delivery in the U.S. – Market & System Challenges)
MIT Sloan School of Management - *Fall 2010, 2011, 2012, 2014, 2015, 2016, 2017, 2018*

15.060 (Data, Models, Decisions) –MIT Sloan School of Management MBA Program - *Fall 2008, 2009*

15.760 (Introduction to Operations Management) –MIT Sloan School of Management MBA Program - *Spring 2007, 2008*

15.764 (The Theory of Operations Management) – PhD course
MIT Sloan School of Management (part of Operations Research Center program) - *Spring 2008, 2010, 2012*

OR320/520 (Optimization 1) – Undergraduate Program
ORIE Department, Cornell University - *Summer 2003, 2004*

OR522 (Topics in Linear Optimization) – Master of Engineering course
ORIE Department, Cornell University - *Fall 2003*

OR115 (Introduction to Operations Research) – Freshman year course
ORIE Department, Cornell University - *Spring 2004*

STUDENT THESIS SUPERVISOR

PhD Students

Ali Aouad (ORC, co-advised with Vivek Farias, graduated summer 2017, assumed faculty position at LBS) **Assaf Avrahami** (Technion, Israel, co-advised with Yale Herer, graduated

2012) **Fernanda Bravo** (Sloan PhD, graduated 2015, assumed faculty position at Anderson School of Management, UCLA) **Daniel Chen** (ORC, co-advised with Georgia Perakis, graduated in 2018 and now at Amazon), **Shi Cong** (ORC, won Nicholson Student Paper Competition, graduated 2012, assumed faculty position at Industrial Engineering Department, Michigan University), **Adam El-Machtoub** (ORC, graduated 2014, assumed faculty position in IEOR Department, Columbia University), **Andreea Georgescu** (ORC, 3rd year student, co-advised with Vivek Farias), **Michael Hu** (ORC, graduated in 2020 and now at MGH), **Phillip Keller** (ORC, co-advised with Georgia Perakis, graduated in 2012, now at Google), **Elisabeth Paulson** (ORC, 4th year student, co-advised with Georgia Perakis), **Nick Renegar** (ORC, 4th year student), **Gonzalo Romero** (Sloan PhD, co-supervised with Georgia Perakis, graduated 2014, assumed faculty position at Rothman School of Management, University of Toronto), **Yaron Shaposhnik** (ORC, co-advised with Tom Magnanti, graduated 2016, assumed faculty position at Simon School of Business, University of Rochester), **Somya Singhvi** (ORC, 5th year co- advised with Karen Zheng), **Joline Ann Villaranda Uichanco** (ORC, co-advised with Georgia Perakis, graduated 2013, assumed faculty position Ross School of Business, University of Michigan), **Shujing Wang** (ORC, co- advised with Karen Zheng, graduated 2018), **Josh Wilde** (ORC, 2nd year PhD student), **Eric Zarybnisky** (ORC, co-advised with Tom Magnanti, graduated summer 2011, now in U.S. Air Force), **Jonathan Paynter** (ORC, 1st year student), **Kevin Kaiwen Hu** (ORC, 1st year student)

Master Students

Christian Adib (LGO), **Mariam Al-Meer** (LGO, graduated 2017), **Amine Anoun** (ORC, co-advised with Tauhid Zaman, graduated 2017), **Noa Ben-Zvi** (LGO, graduated 2012), **Wongsakorn Chaiwanon** (ORC, graduated 2010, co-advised with David Gamarnik), **Phil Cho** (ORC, graduated 2011, co-advised with Tom Magnanti), **Benjamin Christensen** (LGO, graduated 2012), **Katherine Davis** (LGO, graduated 2016), Sara Dolcetti (LGO, graduated 2014), **Philip Ebben** (LGO, graduated 2018), **Jazmin Furtado** (ORC, graduated 2018), **Yanai Gollani** (LGO, graduated 2013), **Jonas Hiltrop** (LGO, graduated 2014), **Jordan Hoffmann** (LGO, graduated 2017), **Yiqun Hu** (CDO), **Andrew Johnston** (LGO, graduated 2016), **John Kessler** (ORC, co-advised with Tom Magnanti, graduated 2012), **Dan Kress** (LGO, graduated 2015), **Wendi Li** (LGO, graduated 2015), **Jessamyn Jade Liu** (ORC), **Yi Yin Ma** (LGO, graduated 2013), **Adam Ryan Marshall** (LGO, graduated 2016), **Sean Timothy McNichols** (LGO, graduated 2014), **Vaishal Patel** (LGO, graduated 2015), **Devon Price** (LGO, graduated 2011), **Tinting Rao** (CDO, co-advised with Georgia Perakis, graduated 2008), **Ashleigh Royalty Range** (LGO, graduated 2013), **Thomas Sanderson** (LGO, graduated 2014), **Matthew Ross Schlanser** (LGO, graduated 2013), **Trevor Schwartz** (LGO, graduated 2012), **Ryan Shofnos** (LGO, graduated 2015), **Jason Stuck** (LGO, graduated 2016), **Adam Traina** (LGO, graduated 2013), **Liz Ugraph** (LGO, graduated 2017), **Alexandra Unger** (LGO), **Uichanco Joline Ann Villaranda** (CDO, co-advised with Georgia Perakis, graduated 2007), **Andrew Vanden Berg** (ORC, graduated 2018), **Kfir Yeshayahu** (LGO, graduated 2016), **Qian Yu** (CDO, graduated January 2010), **Jonathan Zanger** (LGO, graduated 2018), **Celia Escribe** (ORC), **Andrew Foster** (LGO, graduated 2019), **Emily Kehne** (LGO), graduated 2019), **Brian Martin** (LGO, graduated 2019)

Mentored Undergraduate Students

Luwen Huang (UROP, co-supervised), **Katherine Lin** (UROP student), **So Yeon Min** (UROP student)

Supervised Postdoctoral Fellows

Christopher Sun (2019-present), **Taghi Khaniyev** (2018-present) , **Dominic Johannes Breuer** (2017-present) **Aleida Braaksma** (2015-present), **Cecilia Zenteno** (2012-present) **Tim Carnes** (2010-2012), **Farhad Ghassemi** (2009-2011), **Kimia Ghobadi** (2015-2018) , **Danny Segev** (2008- 2009), **David Scheinker** (2013-2015, assumed position at Stanford Children’s Hospital), **Liron Yedidson** (2009-2010),

PUBLICATIONS

Theses

"Computing Provably Near-Optimal Policies for Stochastic Inventory Control Models" under the supervision of Robin Roundy and David Shmoys (PhD Thesis)

Refereed Journals

"Assortment Optimization under Consider-then-Choose Choice Models" Ali Aouad, Vivek Farias and Retsef Levi, 2019 (*Management Science*, April 2020)

"Unifying Agricultural Wholesale Markets: Impact on Market Prices and Farmers' Profitability" Retsef Levi, Manoj Rajan, Somya Singhvi, Yanchong Zheng (to appear in *Proceedings of the National Academy of Sciences (PNAS)*)

"Development and validation of a machine learning model to aid discharge processes in surgical inpatients" Kyan Safavi, Taghi Khaniyev, Martin Copenhaver, Mark Seelen, Ana Zenteno Langle, Jonathan Zanger, Bethany Daily, Retsef Levi, Peter Dunn (*JAMA Network Open*, 2019; 2(12))

"Strategic Capacity Planning Problems in Revenue Sharing Joint Ventures" Retsef Levi, Georgia Perakis, Cong Shi and Wei Sun, 2019 (*Production and Operations Management*)

"Health Systems Innovation: Analytics in Action" Martin S. Copenhaver, Michael Hu, Retsef Levi, Kyan Safavi, M.D., Ana Cecelia Zenteno Langle (Tutorials in *Operations Research*, October 2019)

"Non-clinical delays in transfer out of the ICU are associated with increased hospital length of stay and delayed progress of care" Jazmin Furtado, Kyan C Safavi, David Scheinker, Ana Cecilia Zenteno Langle, Retsef Levi and Peter Dunn, 2019 (*Journal of Critical Care*, Volume 50, pages 126-131)

"Near-Optimality of Uniform Co-payments for Subsidy Allocation Problems" Gonzalo Romero, Retsef Levi and Georgia Perakis, 2016 (*Operations Research*, volume 67 (2), pages 548–561, March-April 2019)

"Scheduling and Testing" Retsef Levi, Tom Magnanti and Yaron Shaposhnik, 2013 (*Management Science*, volume 65 (2), pages 776–793, February 2019)

"Greedy-Like Algorithms for Dynamic Assortment Planning Under Multinomial Logit Preferences" Ali Aouad, Danny Segev and Retsef Levi (*Operations Research*, volume 66 (5), pages 1321-1345, November 2018)

"The Approximability of Assortment Optimization under Ranking Preferences" Ali Aouad, Vivek Farias, Retsef Levi and Danny Segev (*Operations Research*, volume 66 (6), pages 1661–1669, November 2018)

"Changing the patient safety paradigm" Jennifer Stevens, Retsef Levi and Kenneth Sands, 2016 (published in advance in *Journal of Patient Safety*)

"Approximation Algorithms for Dynamic Assortment Optimization Models" Ali Aouad, Retsef Levi and Danny Segev, 2018 (*Mathematics of Operations Research*, Articles in Advance, pp. 1– 25)

"Translating a Biologic Revolution into an Organizational Overhaul" Kimia Ghobadi, Cecilia Zenteno, Adam Marshall, Peter Dunn, Retsef Levi and John Stone (*Catalyst, New England Journal of Medicine*, February 2017)

"Revenue Management of Reusable Resources with Advanced Reservations" Yiwei Chen, Retsef Levi and Cong Shi (*POMS*, Volume 26 (5), pages 836-859, May 2017)

"Provably Near-Optimal Balancing Policies for Stochastic Multi-Echelon Inventory Control Models" Retsef Levi, Robin Roundy and Van Anh Truong (published in *Mathematics of Operations Research*, Volume 42 (1), pages 256-276, 2017)

"On the Effectiveness of Uniform Subsidies in Increasing Market Consumption" Retsef Levi Georgia Perakis and Gonzalo Romero (*Management Science*, Volume 63 (1), pages 40-57, 2017)

"The Submodular Joint Replenishment Problem" Maurice Cheung, Adam Elmachtoub, Retsef Levi and David Shmoys (*Mathematical Programming*, Volume 158 (1-2), pages 207–233, 2016)

"Systematic OR Block Allocation in Large Academic Medical Centers" Tim Carnes, Cecilia Zenteno, Retsef Levi, Devon Price, Peter Dunn and Bethany Daily (*Annals of Surgery*, Volume 264 (6), pages 973–981, 2016)

"Supply Chain Management and Logistics Models with Online Demand Selection" Adam Elmachtoub and Retsef Levi (*Operations Research*, Volume 64 (2), pages 458- 473, 2016)

"Near-Optimal Algorithms for Assortment Planning under Dynamic Substitution and Stochastic Demand" Vineet Goyal, Retsef Levi and Danny Segev (*Operations Research*, Volume 64 (1), pages 219-235, 2016)

"The Data Driven Newsvendor Problem – New Bounds and Insights" Retsef Levi, Georgia Perakis, Joline Uichanco (*Operations Research*, Volume 63 (6), pages 1294-1306, 2015)

"From Cost Sharing Mechanisms to Online Selection Problems" Adam Elmachtoub and Retsef Levi (*Mathematics of Operations Research*, Volume 40 (3), pages 542-557, 2015)

"Nature and Sources of Variability in Surgical Case Duration" Fernanda Bravo, Lynne Ferrari, Retsef Levi and Mike McManus (*Pediatric Anesthesia*, Volume 25 (10), pages 999-1006, 2015)

"Pooled Open Blocks Shorten Wait Times for Non-Elective Surgical Cases" Ana C. Zenteno, Tim Carnes, Retsef Levi, Bethany Daily, Devon Price, Sue Moss and Peter Dunn (2012 *Annals of Surgery*, Volume 262 (1), pages 60–67, 2015)

"Maintenance and Flight Scheduling of Low Observable Aircraft" Philip Cho, Vivek Farias, John Kessler, Retsef Levi and Thomas Magnanti (2013 *Naval Research Logistics*, Volume 62 (1), pages 60-80, February 2015)

"A continuous knapsack problem with separable convex utilities: Approximation algorithms and applications" Retsef Levi, Georgia Perakis and Gonzalo Romero (*Operations Research Letters*, Issue 42 (5), pages 367–373, 2014)

"Matching Supply and Demand via Delayed 2-Phase Distribution at Yedioth Group-Models, Algorithms and IT" Assaf Avrahami, Yale Herer and Retsef Levi (*Interfaces*, Volume 44 (5), pages 445–460, 2014) *awarded the 2013 Daniel H. Wagner Prize for Excellence in Operations Research Practice*

"Maintenance Scheduling for Modular Systems – New Models and Algorithms" Retsef Levi, Tom Magnanti, Jack Muckstadt, Danny Segev and Eric Zarybnisky (*Naval Research Logistics*, Volume 61 (6), pages 472–488, September 2014) *awarded the 2016 Harold W. Kuhn Award, an annual prize which recognizes an exceptional paper published in *Naval Research Logistics**

"Approximation Algorithms for Capacitated Stochastic Inventory Systems with Setup Cost" Xiuli Chao, Retsef Levi, Cong Shi and Huanan Zhang (*Naval Research Logistics*, Volume 61 (4), pages 304–319, June 2014)

"Efficient Formulations for Multi-Product Constrained Pricing under Attraction Demand Models" Phil Keller, Retsef Levi, Georgia Perakis (*Mathematical Programming*, Volume 145 (1-2), pages 223-261, June 2014)

"Delay of Transfer from the Intensive Care Unit: A Prospective Observational Study of Incidence, Causes and Financial Impact" Daniel W. Johnson, Ulrich Schmidt, Edward A. Bittner, Benjamin Christensen, Retsef Levi and Richard M. Pino (*Critical Care*, Volume 17: R128, 2013)

"Online Make-to-Order Joint Replenishment Model: Primal-Dual Competitive Algorithms" Niv Buchbinder, Tracy Kimbrel, Retsef Levi, Konstantin Makarychev and Maxim Sviridenko (*Operations Research*, Volume 61 (4), pages 1014-1029, July-August 2013)

"Approximation Algorithms for the Stochastic Lot-Sizing Problem with Order Lead Times" Retsef Levi and Cong Shi (*Operations Research*, Volume 61 (3), pages 593-602, May- June 2013) *won the 2009 Nicholson Student Paper Competition*

"NP-Hardness Proof for the Assembly Problem with Stationary Setup and Additive Holding Costs" Retsef Levi and Liron Yedidsion (*Operations Research Letters*, Volume 41 (2), Pages 134–137, March 2013)

"Commentary- Driving New Science of Healthcare Delivery: What Does It Take to Make an Impact?" Retsef Levi and Ann Prestipino (*Manufacturing & Services Operations Management (MSOM)*, Volume 14 (4), pages 499-504, fall 2012) *invited paper for special issue on Healthcare Operations Management*

"Modeling the Impact of Changing Patient Transportation System on Perioperative Process Performance in a Large Hospital: Insights from a Computer Simulation Study" Danny Segev, Retsef Levi, Peter Dunn, Warren Sandberg (*Health Care Management Science*, Volume 15 (2), pages 155-169, June 2012)

"Technical Note- A Sampling-based Approach to Appointment Scheduling" Mehmet Begen, Retsef Levi and Maurice Queyranne (*Operations Research*, Volume 60 (3), pages 675-681, June 2012)

"LP-based Approximation Algorithms for Capacitated Facility Location" Retsef Levi, David Shmoys and Chaitanya Swamy (*Mathematical Programming*, Volume 131 (1-2), pages 365-379, February 2012) (extended abstract appeared in IPCO 2004)

"Approximation Algorithms for Supply Chain Planning and Logistics Problems with Market Choice" Joseph Geunes, Retsef Levi, Edwin Romeijn and David Shmoys (*Mathematical Programming*, Volume 130 (1), pages 85-106, November 2011) (extended abstract appeared in IPCO 2005)

"Adaptive Data-Driven Inventory Control Policies Based on Kaplan-Meier Estimator" Tim Huh, Retsef Levi, Paat Rusmevichientong and Jim Orlin (*Operations Research*, Volume 59(4), pages 929-941, July 2011)

"Provably Near-Optimal Approximation Algorithms for Operations Management Models" Retsef Levi (*INFORMS Tutorials in Operations Research*, Chapter 8, pages 179-192, 2014) *invited paper*

"Provably Near-Optimal LP-Based Policies for Revenue Management in Systems with Reusable Resources" Retsef Levi and Ana Radovanovic (*Operations Research*, Volume 58 (2), pages 503-507, March-April 2010)

"A Model for Understanding the Impacts of Demand & Capacity on Waitlists in a Congested Recovery Room" Tor Schoenmyer, Peter F. Dunn, David Gamarnik; Retsef Levi, David L. Berger, Bethany J. Daily, Wilton C. Levine, and Warren S. Sandber, (*Anesthesiology*, Volume 110 (6), pages 1293-1304, June 2009)

"Algorithms for Capacitated Rectangle Stabbing and Lot-Sizing with Joint Set-Up Costs" Guy Even, Retsef Levi, Dror Rawitz, Baruch Schieber, Shimon (Moni) Shahar and Maxim Sviridenko (*ACM Transactions on Algorithms*, Volume 4 (3), Article No. 34, 2008)

"Approximation Algorithms for Capacitated Stochastic Inventory Control Models" Retsef Levi, Robin Roundy, David Shmoys and Van Anh Truong (*Operations Research*, Volume 56(5), pages 1184-1199, September-October, 2008)

"Approximation Algorithms for the Capacitated Multi-Item Lot-Sizing Problem Via Flow-Cover Inequalities" Retsef Levi, Andrea Lodi and Maxim Sviridenko (*Mathematics of Operations Research*, Volume 33 (2), pages 461-474, May 2008)

"A 2-Approximation Algorithm for Stochastic Inventory Control Models with Lost Sales" Retsef Levi, Ganesh Janakiraman and Mahesh Nagarajan (*Mathematics of Operations Research*, Volume 33 (2), pages 351-374, May 2008) *awarded the "2008 Optimization Prize for Young Researchers" by INFORMS Optimization Society*

"A Constant Approximation Algorithm for the One-Warehouse Multi-Retailer Problem" Retsef Levi, Robin Roundy, David Shmoys and Maxim Sviridenko (*Management Science*, Volume 54 (4), pages 763-776, April 2008)

"Provably Near-Optimal Sampling-Based Policies for Stochastic Inventory Control Models" Retsef Levi, Robin Roundy and David Shmoys (*Mathematics of Operations Research*, Volume 32 (4), pages 821-839, November 2007)

"Approximation Algorithms for Stochastic Inventory Control Models" Retsef Levi, Martin Pál, Robin Roundy and David Shmoys (*Mathematics of Operations Research*, Volume 32 (2), pages 284-302, May 2007) *awarded first prize in the 2004 MSOM Student Paper Competition*

"Primal-Dual Algorithms for Deterministic Inventory Problems" Retsef Levi, Robin Roundy and David Shmoys (*Mathematics of Operations Research*, Volume 31 (2), pages 267-284, February 2006)

Refereed Conferences

"Submodular Batch Scheduling for Warehouse Picking" Daniel Chen, Retsef Levi and Georgia Perakis, *MSOM 2018*

"Impact of access and value on fresh food consumption: Policy implications" Retsef Levi, Georgia Perakis and Elisabeth Paulson, *MSOM 2018*

"Speculative Shortages in Agricultural Supply Chains: The Effect of Government Interventions" Retsef Levi, Somya Singhvi and Karen Zheng, *MSOM 2018*

"Economically Motivated Adulteration in Farming Supply Chains" Retsef Levi, Somya Singhvi, and Yanchong Zheng, *MSOM Supply Chain Management SIG 2018*

"Valuing and Optimizing Non-facetime Work in Determining Practice Workload" Stephanie Eisenstat, Michael Hu and Retsef Levi, *2018 Annual SGIM Meeting*

"Scheduling and Testing" Retsef Levi, Tom Magnanti and Yaron Shaposhnik, *MSOM Service SIG 2014*

"Modeling and Optimizing Network Costs and Resource Allocation in Healthcare Delivery Systems" Fernanda Bravo, Marcus Braun, Vivek Farias and Retsef Levi, *MSOM 2014*

"Approximation Algorithms for Capacitated Lot-Sizing Models with Fixed Ordering Cost" Xiuli Chao, Retsef Levi, Cong Shi and Huanan Zhang, *MSOM 2013*

"Systematic Block Allocation in Academic Medical Centers" Tim Carnes, Bethany Daily, Peter Dunn, Retsef Levi, Devon Price and Cecilia Zenteno, *2013 Healthcare Operations Management SIG*

"Co-payment Allocation in Imperfect Markets" Retsef Levi, Georgia Perakis and Gonzalo Romero, *2013 MSOM Conference*

"Approximation Algorithms for Inventory Problems with Generalized Setup Costs" Maurice Cheung, Adam El-Machtoub, Retsef Levi and David Shmoys, *MSOM 2012*

"Allocating Subsidies to Minimize a Commodity's Market Price: A Network Design Approach" Retsef Levi, Georgia Perakis and Gonzalo Romero, *MSOM 2012*

"Contract Designs with Incentive Alignment for Joint Ventures in the Healthcare Industry" Retsef Levi, Georgia Perakis, Cong Shi and Wei Sun, *MSOM 2012*

"From Cost-Sharing Mechanisms to Online Selection Problems" Adam El-Machtoub and Retsef Levi, *MSOM 2012*

"Approximation Algorithms for the Multi-Item Lot-Sizing Problem with Non Uniform Capacities" Retsef Levi, Maxim Sviridenko and Liron Yedidsion, *MSOM 2012*

"Cycle Limited Maintenance Scheduling with Submodular Costs" Retsef Levi, Tom Magnanti, Jack Muckstadt, Danny Segev and Eric Zarybnisky, *MSOM 2011*

"Revenue Management of Reusable Resources with Advanced Reservations" Retsef Levi and Cong Shi, *MSOM 2011*

"Regret optimization for stochastic inventory models with spread information" Retsef Levi, Georgia Perakis and Joline Uichanco, *MSOM 2011*

"Supply Chain Management and Logistics Models with Online Demand Selection" Adam ElMachtoub and Retsef Levi, *MSOM 2011*

"The Value of Information in a Retailer-Based Distribution Network" Assaf Avrahami, Retsef Levi and Yale Herer, *MSOM 2011*

"The Data-Driven Newsvendor Problem – New Bounds and Insight, (Extended Abstract)" Retsef Levi, Georgia Perakis and Joline Uichanco, *MSOM 2010*

"Maintenance Scheduling for Modular Systems – New Models and Algorithms, (Extended Abstract)" Retsef Levi, Tom Magnanti and Eric Zarybnisky, *MSOM 2010*

"Approximation Algorithms for the Stochastic Lot-Sizing Problem, (Extended Abstract)" Retsef Levi and Cong Shi, *MSOM 2009*

"Near-Optimal Algorithms for Assortment Planning under Substitution and Stochastic Demand, (Extended Abstract)" Vineet Goyal, Retsef Levi and Danny Segev, *MSOM 2009*

"Online Make-to-Order Joint Replenishment Model: Primal-Dual Competitive Algorithms (Extended Abstract)" Niv Buchbinder, Tracy Kimbrel, Retsef Levi, Konstantin Makarychev and Maxim Sviridenko, *SODA 2008*, pages 952-961, 2008

"Approximation Algorithms for the Multi-Item Capacitated Lot-Sizing Problem via Flow- Cover Inequalities (Extended Abstract)" Retsef Levi, Andrea Lodi and Maxim Sviridenko, *Proceedings of IPCO 2007*, pages 454-468, 2007

"Improved Approximation Algorithms for the One-Warehouse-Multi-Retailer Problem (Extended Abstract)" Retsef Levi and Maxim Sviridenko, *Proceedings of APPROX 2006*, pages 188-199, 2006

"Provably Near-Optimal Balancing Policies for Multi-Echelon Stochastic Inventory Control Models" Retsef Levi, Robin Roundy and Van Anh Truong, presented at *2006 Multi- Echelon Conference*

"Provably Near-Optimal Sampling-Based Policies for Stochastic Inventory Control Models (Extended Abstract)" Retsef Levi, Robin Roundy and David Shmoys, *Proceedings of the 38th Annual ACM Symposium on Theory of Computing*, pages 739- 748, 2006

"Approximation Algorithms for Stochastic Inventory Control Models (Extended Abstract)" Retsef Levi, Martin Pál, Robin Roundy and David Shmoys, *Proceedings of IPCO 2005*, pages 306-320

"Inventory and Facility-Location Models with Market Selection (Extended

Abstract) Retsef Levi, Joseph Geunes, Edwin Romeijn and David Shmoys, *Proceedings of IPCO 2005*, pages 111-124

"First Constant Approximation Algorithm for the One-Warehouse-Multi-Retailer Problem (Extended Abstract)" Retsef Levi, Robin Roundy and David Shmoys, *Proceedings of SODA 2005*, pages 365-374

"Primal-Dual Algorithms for Deterministic Inventory Problems (Extended Abstract)" Retsef Levi, Robin Roundy and David Shmoys, *Proceedings of the 36th Annual ACM Symposium on Theory of Computing*, pages 353-362, STOC 2004

"LP-Based Approximation Algorithms for Capacitated Facility Location (Extended Abstract)" Retsef Levi, David Shmoys and Chaitanya Swamy, *Proceedings of IPCO 2004*, pages 206- 218

"Facility Location with Service Installation Costs (Extended Abstract)" David Shmoys, Chaitanya Swamy and Retsef Levi, *Proceedings of SODA 2004*, pages 1081-1090

Submitted Papers

"Scheduling with Testing of Heterogeneous Jobs" Retsef Levi, Yaron Shaposhnik and Thomas Magnanti, 2018 (submitted to *Operations Research*)

"Artificial Shortage in Agricultural Supply Chains" Retsef Levi, Somya Singhvi, Yanchong Zheng, 2017 (revision submitted to *Manufacturing and Service Operations Management (MSOM)*)

"Testing at the Source: Analytics-Enabled Risk-Based Sampling of Food Supply Chains in China" Retsef Levi, Cangyu Jin, Qiao Liang, Nicholas Renegar, Stacy Springs, Jiehong Zhou, Weihua Zhou 2019 (submitted to *Management Science*)

"Inspection Intensity and the Adoption of Traceability in Wholesale Markets: A Game Theoretic Model and Empirical Evidence." Qiao Lian, Jin Cangyu, Retsef Levi, Nicholas Renegar, and Jiehong Zhou (submitted to *Journal of Agricultural Economics*)

"Base Stock Policies for Lost-Sales Models, State Space Aggregation and Limiting Transition Probabilities" Joachim Arts, Retsef Levi and Geert-Jan van Houtum, 2019 (submitted to *Naval Research Logistics*)

"Improving Farmers' Income on Online Agri-platforms: Design and Field Implementation of a Two-stage Auction" Retsef Levi, Manoj Rajan, Somya Singhvi, Yanchong Zheng, 2020 (submitted to *Proceedings of the National Academy of Sciences (PNAS)*)

"Food Safety and the Adoption of Traceability: Evidence from a Wholesale Market Field Survey in China" Cangyu Jin, Retsef Levi, Qiao Liang, Nicholas Renegar and Jiehong Zhou, 2019 (submitted to *Food Policy*)

"Optimal subsidies for increasing healthy food consumption" Retsef Levi, Elisabeth Paulson and Georgia Perakis, 2018 (submitted to *Operations Research*)

"Impact of access and value on fresh food consumption: Policy implications" Retsef Levi, Georgia Perakis and Elisabeth Paulson, 2017 (submitted to *Naval Research Logistics*)

"Stochastic Selection Problems with Testing" Chen Attias, Robert Krauthgamer, Retsef Levi and Yaron Shaposhnik, 2018 (submitted to *Management Science*, revision requested)

"A Risk-Sharing Pricing Contract for Healthcare Referral Services" Fernanda Bravo, Retsef Levi, Georgia Perakis and Gonzalo Romero (submitted to *Production and Operations Management (POMs)*)

"Supply Chain Network Analytics Guiding Food Regulatory Policy" Retsef Levi, Nicholas Renegar, Stacy Springs, Tauhid Zaman, 2018 (submitted to *Operations Research*, revision requested)

"Real-Time Outpatient Scheduling with Patient Choice" Kimia Ghobadi, Inga Lennes, Retsef Levi, Adam Marshall, Wendi Reib and Cecilia Zenteno, 2016 (submitted to *MSOM*- revision requested)

"Mathematical Programming Analysis of a Graph Visiting Problem" Retsef Levi, Tom Magnanti, Danny Segev and Eric Zarybnisky, 2011 (submitted to *Mathematical Programming*, revision requested)

"Regret optimization for stochastic inventory models with spread information" Retsef Levi, Georgia Perakis and Joline Uichanco, 2011 (submitted to *Operations Research*, revision requested)

Working Papers (Drafts Exist)

"Measuring Work After Work Using Electronic Health Records" Stephanie A. Eisenstat, Michael Hu, Retsef Levi, Walter J. O'Donnell, 2018

"Picking Multi-item Orders in a Warehouse: Data, Models and Simulation" Daniel Chen, Retsef Levi and Georgia Perakis, 2018

"Submodular Batch Scheduling for Warehouse Picking" Daniel Chen, Retsef Levi and Georgia Perakis, 2018

"Robustly minimizing a piecewise-linear cost function with respect to uncertainty in mixed Demand" Daniel Chen, Retsef Levi and Georgia Perakis, 2018

"Optimizing Purchasing and Handling Costs for Supply Chain Procurement" Bradley Genser, Retsef Levi, Georgia Perakis and Gonzalo Romero, 2016

"An Empirical Investigation of Risk Drivers for Economically Motivated Food Adulteration in China's Farming Supply Chains" Yasheng Huang, Retsef Levi, Stacy Springs, Shujing Wang and Yanchong (Karen) Zheng, 2017

"Impacts of Shift Patterns on Patients' Length of Stay" Rhodes Berube, Peter Dunn, Kimia Ghobadi, Andrew Johnston, Retsef Levi and Walter O'Donnell, 2017

"Process-Driven Discussions in Team-Based Decision Making for Operational Risk Management" Retsef Levi, Shujing Wang and Karen Zheng, 2015

"The Association Between Transfer Delays in ICU and Increased Hospital Length of Stay" Benjamin Christensen, Sara Dolcetti, Peter Dunn, Retsef Levi, David Scheinker and Uli Schmidth, 2014

"Data-Driven Optimization to Understand Healthcare Network Costs and Resource Allocation" Marcus Braun, Fernanda Bravo, Vivek Farias and Retsef Levi, 2014

"A Service-Based Discrete Event Simulation Model for Capacity Planning and Design of Patient Flow Policies in Intensive Care Units" David Gamarnik, Retsef Levi, Mike McManus and Tom Wongsakom, 2013

"Base-Stock Policies for Lost-Sales Models: State Space Aggregation and Limiting Transition Probabilities" Joachim Arts, Retsef Levi and Geert-Jan van Houtum, 2013

"Sampling-Based Algorithms for Airline Revenue Management Problems" Tim Huh, Tiam Hai Lee and Retsef Levi, 2009

"Dynamic Pricing with Learning – State-Space Collapse and Fully Polynomial Time Approximation Scheme" Vivek Farias, Retsef Levi, Jim Orlin and Georgia Perakis, 2008

"New Policies for Stochastic Inventory Control Models - Theoretical and Computational Results" Gavin Hurley, Peter Jackson, Retsef Levi, Robin Roundy and David Shmoys, 2006

Work in Progress Papers

"Systematic Risk Management of the China-Based Manufactured Jerky Treats" Reuben Domike, Retsef Levi, Stacy Springs, Shannon Stewart, Tauhid Zaman and Karen Zheng, 2014

"Intra-day Surgical Scheduling & PACU Patient Flow" Bethany Daily, Peter Dunn, Retsef Levi, Ashleigh Ranger and Cecilia Zenteno, 2013 (part of Ashleigh Ranger's thesis)

"Surgical-Supply Inventory Policies" Noa Ben Zvi, Bethany Daily, Peter Dunn, Retsef Levi, Matthew Schlanser and Cecilia Zenteno (part of Matthew Schlanser and Noa Ben Zvi's theses)

"The Box Property of Capacitated Stochastic Resource Allocation Problems" Tim Huh, Ganesh Janakiraman, Retsef Levi, Mahesh Nagarajan and Robin Roundy

Case Studies

"The Yedioth Group"
Retsef Levi, 2014

"Massachusetts General Hospital: Pre-Admission Testing Area (PATA)"
Kelsey McCarty, Jeremie Gallien, Retsef Levi, 2012

INVITED TALKS

"Evidence-Based Cyber-Risk Management through Risk Drivers and Risky States"
CSAIL Alliance Conference, MIT, 2019

"Managing Systemic Supply Chain Risks via Advanced Analytics"
BioMan Conference, MIT, 2019; US FDA, White Oak, 2019

"Health System Innovation through Data & Analytics"
Philips Lab, Cambridge, MA, 2019; Kellogg School of Management, Northwestern University, 2019; IEOR-DRO Seminar, Columbia University, 2019, Blue-Cross Blue-Shields CIO Forum, Boston, 2019; INFORMS Healthcare Conference (plenary), MIT, 2019, Boston University Medical School, 2019;

"Healthy Food Consumption: Empirical Analysis and Optimization Models of Government

"Interventions"

ORIE Department, Cornell University, 2019

"The Future of Human Health: Managing Chronic Conditions"

Here, Now, Next, MIT, 2018

"Operationalizing Analytics: From Talking to Actions"

BioMan Workshop, MIT, 2018

"Systematic Risk Management of Food Supply Chains: Supply Chain Analysis & Analytics"

ORIE Department, Cornell University, 2019; Boston University Business School, 2019; CFSIQ, Beijing China, 2019; SIST Conference Shenzhen China, 2019; China-India Insight Conference, MIT, 2019; ICIL Conference, Israel, 2018; London Business School, 2018; Walmart Event in Georgetown University, 2018

"Inbar Healthcare Management Program"

Health Systems Inbar, 2018

"Leveraging Analytics, AI & Technology to Create Transparency in Food Supply Chains"

China Summit, 2018

"Predicting Surgical Patients' Discharges at Massachusetts General Hospital"

INFORMS, Houston, 2017

"Systemic Risk Management of Food Supply Chains: Predictive Risk Models & Food Testing Capabilities"

CFDA Executive Leadership Program, Washington, DC, 2018; Boston College, 2017; CIFSQ Conference, Beijing, China, 2017; GFSI China Day, Beijing, China, 2017

"Economically Motivated Adulteration Risks in Global Food Supply Chains"

FDLI Annual Conference, Washington DC, 2017

"Health System Innovation through Analytics and Operations Research"

Israel Talk, 2018; MITRE, Boston, 2018; Boston INFORMS Chapter, 2017; SMU Cox School of Business, Dallas

"New Approach to Safety & Risk Management in Health Systems"

INFORMS Guest Lecture, 2016; Stanford University, 2016

"Analytics in Health Systems"

MIT Digital Health Conference, 2016

"Exploration vs. Exploitation: Reducing Uncertainty in Operational Problems"

ISyE, Google NYC, 2016; New Directions in Management Science Seminar, MS&E, Stanford University, 2016; Georgia Tech, 2015; Operations Research Center, MIT, 2014

"A Systematic Approach to Addressing Intentional Adulteration of FDA-regulated Food and Drug Products and Ingredients Emanating from Global Supply Chains"

ORIE Department Alumni Event, Cornell University, 2016; NY Campus, Cornell University, 2016; MSE OR Seminar, Stanford University, 2016; Crossroads Conference, MIT, 2016; Sauder School Business, University of British Columbia, Canada, 2015; MIT LGO Governing Board, 2015; MIT LIDS Lunch Seminar, 2015; MIT Sloan Initiative for Health System Innovation, MIT, 2014; Yale School of Management, 2014

“Approximation Algorithms for Dynamic Assortment Optimization”

Weizmann Institute of Science, Rehovot, Israel, 2015

“Cost and Resource Allocation in Healthcare Networks”

MSOM, 2014

“Optimizing and Coordinating Healthcare Networks and Markets”

Plenary talk-2014 SIAM Optimization Conference, 2014; Smith School of Business, Maryland University, 2014; Graduate School of Business, Stanford University, 2014

“Assortment Optimization for Non-parametric Choice Models”

Marketing Group, MIT Sloan School of Management, 2016; Plenary talk, 2014 ORSIS Conference, Israel, 2014; Center of Applied Math, Cornell University, 2014

“Testing in Scheduling”

Scheduling Workshop, Dagstuhl, Germany, 2016; 2014 ORSIS, Israel; Weizmann Institute of Science, 2014;

“Optimizing and Coordinating Markets and Networks of Selfish Players”

Weizmann Institute of Science, 2013

“System Thinking and Management in Healthcare Delivery Systems”

Pittsburgh, AAMC Workshop, 2013; Clalit HMO, Israel, 2013

“Operations Research & Operations Management Applied to Academic Medical Centers”

Columbia Medical School, NYC, 2016; Anesthesiology Symposium, 2015; AAMC Webinar 2013; Arizona University, 2013; ORC HC Analytics Conference, MIT, 2013; LBS, London, 2013; MGH, Care Redesign Team Retreat, 2012; Medical School, Vanderbilt University, 2012; ORIE Department, Cornell University, 2012; Operations Management Workshop, Kellogg, Northwestern, 2012

“Matching Supply and Demand via 2-Phase Delayed Distribution at Yedioth Group –Models, Algorithms and IT”

Amazon, Seattle, 2016; INFORMS Analytics, 2014; Ben Gurion University of the Negev, Israel, 2013; INFORMS, 2013; ORIE Department, Cornell University, 2012; Wharton, Penn University, 2012

“Low Observable Maintenance Models and Algorithms”

INFORMS 2012

“Supply Chain Management with Online Customer Selection”

Eindhoven Technical University, Netherlands, 2013; Stern School of Business, NYU, 2013; Operations Research Seminar, Tel-Aviv University, Israel, 2012; Department, Michigan University, 2012

“Approximation Algorithms for Inventory Problems with Generalized Setup Costs”

MSOM, 2012

“On the Access-Throughput Spiral Affects in Large Academic Medical Centers”

INFORMS, 2011

“Maintenance Scheduling for Modular Systems with Submodular Costs”

INFORMS, 2011

“Operations Research & Operations Management Applied to Academic Medical Centers”,

Joint with Peter Dunn and Peter Slavin (President of MGH) American Association of Medical Colleges (AAMC) Conference, Denver, 2011

"Healthcare Delivery in the U.S. – Challenges and Opportunities"

Sloan Alumni Event, 2011, 2012; LGO, Operating Committee, MIT, 2011

"Revenue Management of Reusable Resources"

IE&M Department Seminar, Technion, Israel, 2012; UT Dallas, 2011; Kellogg, 2011; Operations research Seminar, MIT, 2011

"Approximation Algorithms for Multistage Stochastic Control Models in Operations Management (Tutorial)"

INFORMS, special tutorial cluster, 2010; Special Operation Management Workshop, Beijing, China, 2010

"Near Optimal Algorithms for Assortment Planning under Dynamic Substitution and Stochastic Demand"

ISMP 2012, Berlin, Germany; Marketing Group Seminar, Sloan School of Management, MIT, 2011; INFORMS 2010; Technion & Tel Aviv University, Israel, 2009; IBM Watson Research Center 2009

"Non Parametric Data-Driven Policies for Stochastic Inventory Models"

INFORMS, Special Tutorial Cluster, 2011; Rothman School of Business, Toronto University, 2011; Fuqua Business School, Duke University, 2009; Columbia Business School, Columbia University, 2009; IESE Business School - University of Navarra Barcelona, Spain, 2009; Marshal School, USC, 2008; Cornell University, Johnson School of Business, 2008; MSOM 2008; IBM, T.J. Watson Research Center, 2008; Operations Research Seminar, Tel-Aviv University, Israel, 2008; Department of Industrial Engineering and Management Science, Technion, Israel, 2008; Ross School of Business, Michigan, 2008; Cornell University, ORIE Department, 2007

"The On-Line Make-To-Order Joint Replenishment Model"

INFORMS 2007

"Flow-Cover-Inequalities and The Multi-Item Capacitated Lot-Sizing Problem"

ORIE Department, Cornell University, 2007; Department of Industrial Engineering, Technion, Israel, 2007; IPCO 2007; INFORMS 2007

"Provably Near-Optimal Dual-Balancing Policies for Stochastic Inventory Control Models with Lost-Sales"

MSOM 2006; INFORMS 2006; MSE Department, Stanford University 2006

"Provably Near-Optimal Sampling-Based Policies for Stochastic Inventory Control Models"

INFORMS 2006; Sauder School of Business, University of British Columbia, 2006; The Business School of Chicago University, 2006; Computer Science Department of Columbia University, 2006; Operations Research Seminar, Tel-Aviv University, Israel, 2005; Department of Industrial Engineering and Management Science, Technion, Israel, 2005

"Approximation Algorithms for Stochastic Inventory Control Models with Correlated and Evolving Demands"

The Industrial Engineering Department, Tel-Aviv University, Israel, 2007; The 2006 International Symposium of Mathematical programming (ISMP); IBM, Almaden 2006; IPCO 2005; INFORMS 2005; Workshop in Combinatorial Optimization, Oberwolfach, Germany, 2005

"Improved Approximation Algorithms for the One-Warehouse Multi-Retailer Problem"

INFORMS 2006

"Provably Near-Optimal Policies for Hard Stochastic Inventory Control Models"
IBM-NYU-Columbia Theory Day, 2005

"The One-Warehouse Multi-Retailer problem – Improved Approximation Algorithms"
SODA 2005; INFORMS 2005

"Inventory & Facility Location Models with Market Selection"
INFORMS 2005

"The Joint Replenishment Problem – Primal-Dual Approximation Algorithms"
INFORMS 2004; STOC 2004