

DMITRY KRASS

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Professor of Operations Management and Statistics
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CURRENT RESEARCH INTERESTS

Facility Location/Transportation: Reliability/Location Models, Inventory-Location Models, Location of service/inspection facilities on networks, Location of competitive retail facilities, Probabilistic flows on networks, Competitive spatial interaction models, Humanitarian Logistics

Environmental Modeling: Regulation of pollution fines, Sustainable operations

Marketing: Development and Application of Optimization Models for Marketing Mix Management, Optimal Effort Allocation

Predictive/ Prescriptive Analytics: use of “big data” and other analytical tools in business decision making

Stochastic Dynamic Programming: problems with constraints, problems with non-standard payoff criteria

TEACHING EXPERIENCE AND INTERESTS

Master of Management Analytics (MMA) Program: I was the primary developer and the first Academic Director of the MMA program at Rotman School of Management, University of Toronto. In that capacity I took the lead in designing program curricula, working closely with program staff in integrating all aspect of program delivery (recruitment, program services, and placement) and delivering several courses. The program quickly became the most competitive master’s level program at Rotman, with over 10 applicants per spot and was ranked as the top analytics program in Canada and number 19 in the world (2019 ranking, Times Higher Education)

Management Analytics Practicum Course: a centerpiece of the MMA program consisting of 9-month-long consulting-style projects running alongside the program. The course consists of several intensive in-class modules (about 12 contact hours) focused on analytics consulting followed by student groups working on-site at host organization (13-15 project performed in groups of 3-4), while being closely coached by a team of instructors and Ph.D. students. My roles: project coordinator, instructor for the in-class modules, and faculty coach for the projects.

Analytics Colloquia: another unique feature of the MMA program consisting of a series of 6-8hr modules hands-on modules on various current topics ranging from Ethics in AI, to Hadoop and Distributed Data Storage for Data Science, to Analytics for Fraud Detection. The course allows the MMA program to quickly respond to the current and emerging topics in data

science. I act as the course coordinator, working with module instructors to create curriculum and assignments for each module.

Predictive Analytics and Statistics: I am the coordinator of the Analytics Major for the MBA program in Rotman. I teach a core for this major Management Analytics (a course I designed, focused on data mining machine learning, 2-nd year MBA). In the past I have taught Statistics for Managers (1-st year MBA core), Multivariate Analysis (2-nd year MBA / Ph.D.)

Spreadsheet Modeling/ Management Science, Operations Management: I have taught a variety of courses, including: The Art of Spreadsheet Modeling (2-nd year MBA), Management Science (2-nd year MBA), Operations Management (1-st year MBA core), Operations Management (undergraduate), Operations Management in Services (2-nd year MBA), Production and Inventory Theory (Ph.D.), Advanced Topics in Operations Management (Ph.D.)

CONSULTING EXPERIENCE

Senior Partner, Custometrics Inc. – an Analytical Consulting Company

Involved in numerous consulting projects for a wide variety of major Corporations

Selected Projects:

- “Optimal Recovery Actions at a Contact Centre”
- “Optimizing Marketing Allocations and Efficiencies”
- “Optimizing efficiency of direct response media”
- “Best Prospects Identification and Profiling”
- “Retention Modeling and Strategy”
- “Acquisition Model”, “Model-based Media Effectiveness Evaluation”
- “Media Selection and Targeting Model”
- “Simulation Model for Primary Response Units”, Metro Toronto Police
- “Market Structure Analysis and Optimal Promotion Scheduling for the Soft Drinks Market”, Coca-Cola Canada and AC Nielsen Canada
- “Forecasting Demand for Style-Order Goods”, Sears Canada, Catalogue Division
- “Improving Process Flows For a Medical Clinic”, Medcan

HONORS AND AWARDS

Member of Society for Location Analysis panel on the future directions of location research, 2020

Invited member of the panel on Business Analytics, Business Analytics Symposium 2020, George Brown College, Toronto, February 2020

Appointed to Sydney B. Cooper Chair in Business and Technology, Rotman School of Management, 2018

Co-Winner, Roger Martin Excellence in Research Award, Rotman School of Management (awarded annually to one or two top researchers at Rotman), 2014

Winner, Best Application Paper Award for *IIE Transactions*, Scheduling and Logistics, 2013 for the paper ““The Maximum Covering Problem with Travel Time Uncertainty”, co-authored with O. Berman and I. Hajizadeh

Plenary speaker, Discrete OR Conference, Novosibirsk, Russia, June, 2013

Featured speaker, Urban OR Workshop, Nagoya, Japan, December 2012

Keynote speaker, LAND Translog II Conference, Puerto Varas, Chile, December 2011

Honorable Mention, Best paper Award, IEEM Conference, Singapore, Dec. 2007

Winner, INFORMS 2005 Case Competition, "Timeshare Exchange Fair" Case and Teaching Note, co-authored with A. Ovchinnikov and S. Sampson

Honorable Mention (runner-up), Decision Science Institute 2005 Case Competition, "Timeshare Exchange Fair" Case and Teaching Note, co-authored with A. Ovchinnikov and S. Sampson

Rotman School Teaching Excellence Awards (MBA Program): 1997, 1998, 2001, 2006, 2016

Honorable mention, George Nicholson Student Paper Competition, Operations Research Society of America, 1988

Rufus Isaacs Memorial Fellowship, Johns Hopkins University, 1984

Ph.D. SUPERVISION

1. Chen-Wei Xu, “Locating Flow-Intercepting Facilities on a Network With Probabilistic Customer Flows”, 1990-94 (co-supervision with O. Berman). Currently at General Motors Research, Detroit
2. Youhua Chen, “Service Level Constraints and Total Order Quantity Commitments in Inventory Models”, 1992-96. Chair Professor and Head of Management Sciences, City University of Hong Kong
3. Jose Beltran, “Inventory Management with Returning Items”, 1992-98. Senior Researcher, Principal Research Scientist, Big Data Labs, Hitachi, San Francisco
4. T. Nedorezov, “Mathematical Models of Optimizing Levels of Fines for Ecological Pollution”, 1997-2000, University of Krasnoyarsk, Russia (co-supervised with R. Khlebopros). Associate Director of Healthcare Economics, UnitedHealth Group, Baltimore
5. Yi He, “Management of College Admissions” 1996-2001, (co-supervision with O. Berman). Senior Analyst, CIBC Analytical Modeling group, Toronto, Canada
6. R. Aboolian, “Spatial Interaction Models with Exponential Total Expenditures”, 1999-2002, (co-supervision with O. Berman). Professor of Operations Management and Department Chair, California State University, San Marcos
7. Mozart Menezes, “Reliability Issues in Strategic Location Problems”, 1998-2004, (co-supervision with O. Berman). Professor of Operations and Supply Chain Management, NEOMA Business School, Paris
8. Hao Qian, “Leveraging Remote Communications in Service Industry” 1999-2004 (co-supervision with O. Berman)
9. S. Kim, “Location Models With Stochastic Demand and Congestion”, 2000-2005 (co-supervision with O. Berman). Associate Professor, Suffolk University, Boston, MA

10. Anton Ovtchinnikov, "Contributions to the Theory and Practice of Service Operations", 2001-2006 (co-supervision with O. Berman, J. Milner). Distinguished Professor of Management Analytics, Smith School of Business, Queens University, Kingston
11. Binbin Liu, "Pricing and Location Problems in Revenue Management", 2003-2007 (co-supervision with O. Berman, J. Milner). Senior Analyst, Risk analysis group, Royal Bank of Canada, Toronto
12. Iman Hajizadeh, "Problems in Supply Chain Location and Inventory under Uncertainty", 2006-2010 (co-supervision with O. Berman and J. Milner). Project Leader, The Boston Consulting Group, Toronto
13. Dehui Tong, "Optimal Pricing and Capacity Planning in Operations Management", 2005-2010 (co-supervision with O. Berman and J. Milner). Senior Quantitative Analyst, Spark Energy, Houston
14. Vahideh Abedi, "Managing Operations of a New Product or Service Introduction", 2009-2012 (co-supervision with O. Berman). Currently Assistant professor, California State University, Fullerton.
15. Jianfu Wang, "Scheduling Policies in Service Networks", 2009-2013 (joint with O. Baron and O. Berman). Currently Assistant Professor, Nanyang Technical University, Singapore.
16. Mohammed Fazel Zarandi, "Incentives in Supply Chain Management", 2011-2016 (joint with O. Berman, O. Baron). Currently Senior Lecturer, MIT, Cambridge.
17. Tianshu Lu, "Optimizing Emergency Room Operations" (provisional title), 2017-current, joint with O. Baron.
18. Zhoupeng Zhou, several healthcare-related projects, joint with O. Baron
19. Arsenyi Gorbushin, blockchain in supply chains, joint with O. Baron

POST-DOCTORAL FELLOWS

1. T. Nedorezov, 2000-2002. Currently: Research Fellow, National Institute of Aging, Baltimore, Maryland
2. S. Huang, 2004-2005. Currently: Professor, Dept. of Industrial Engineering, Tsinghua University, China
3. M. Mahdi Tajbakhsh, 2008-09. Currently: Vice-President, Mizrahi Developments, Toronto, Canada
4. A. Shlakhter, 2010-12. Currently: Operations Research specialist, Alberta Health Services.
5. Joerg Klascics, 2010-2011. Currently: Academic Assistant (equiv. to Assistant Professor) at the Institute of Operations Research Karlsruhe Institute of Technology (KIT)
6. Eissa Nematollahi, 2010-2011. Currently: post-doctoral fellow, Institute for Sustainable Energy, Environment, and Economy (ISEEE) and Department of Electrical Engineering, University of Calgary
7. Alireza (Payam) Rahimi-Vahed, 2014-2015. Currently: Data Scientist and Optimization Specialist, Sears Holdings, Chicago, IL
8. Yael Deutsch, 2014-2015. Currently: Professor, department of Management, Bar-Ilan University, Israel
9. Eliran Schertzer, 2021-present. Ph.D. from Technion, Israel.

ADMINISTRATIVE EXPERIENCE

Academic Director, Master of Management Analytics Program, Rotman School of Management, 2017-present. Designed the program structure, prepared the proposal, led the program approval through various levels at Rotman and the University, became first Academic Director of the Program.

Area Co-ordinator, Operations Management and Statistics, Rotman School of Management, University of Toronto, 1997- 2007, 2008-09. Responsible for teaching assignments, management of part-time instructors, and other administrative matters within the Area (roughly equivalent to Department Chair)

Director (coordinator), Ph.D. program in Operations Management, Rotman School of Management, 1994-2016. Acted as an academic advisor to all Ph.D. students in Operations Management during their first two years; organized and contributed to the annual Comprehensive Exam.

Member: Management Committee (2019-present), Special Graduate Programs Committee (2019-present), Special Taskforce on COVID Response (2020), Curriculum Review Taskforce (2016-2019), Chairs and Professorships Committee (2016-2019), Executive Committee (elected, 1997-1999 and 2003-2005), Area Coordinators Committee (1997-2009), Undergraduate Programs Committee (1994-96), MBA Program Committee (1996-2000), Ph.D. Committee (1994-2016, Chair, 2005), University of Toronto Academic Board (1998-2000)

Member of numerous tenure evaluation committees in Management and Industrial Engineering, both internal (Rotman, UofT) and external

Member of numerous faculty search committees; chaired search committees in Operations Management in 1997, 2001, 2003, 2004, 2005, 2006, 2007

Member of numerous Ph.D. examination committees in Operations Management and Industrial Engineering; member of supervisory committees for Jitendra Das (Forestry, 1998), Mustafa Karakul (Operations Management, 2003), Rongbing Huang (Operations Management, 2006), Alex Shlakhter (Industrial Engineering, 2009), Mojtaba Araghi (Operations Management, 2010), Mike Pavlin (Operations Management, 2012), Nima Sanajian (Operations Management, 2012), Saman Lagzi (current)

PROFESSIONAL SERVICE

Co-presenter of the webinar on the effects of COVID on supply chain disruptions (with O, Baron) <https://www-2.rotman.utoronto.ca/insightshub/details.aspx?category=Efficiency%20and%20Operational%20Performance®ion=%&researchid=1261>

Member, editorial board, *Computers and Operations Research*, 2010-present

Co-editor of "Recent Developments in The Theory and Application of Location Models", *Annals of Operations Research*, volumes 110 and 111, 2002

Guest Editor, *Operations Research* 2009

Reviewer for: *Operations Research, Management Science, MSOM, Transportation Science, Networks, Mathematics of Operations Research, Optimization, IIE Transactions, Annals of Operations Research*, and a number of other peer-reviewed journals in Operations Research and Management Science

Invited Speaker: Canadian Marketing Association Conference (2 times), INFORMS Practice Conference, LAND Translog II Conference (Chile), Urban OR Workshop (Japan), Discrete Optimization Conference (Russia)

Guest speaker at University of Chicago, Northwestern University, McGill University, University of Waterloo, University of Buffalo, ZLC-MIT (Zaragoza, Spain), University of Virginia (Darden school), Cal. State Univ. (San Marcos), Suffolk University, Plehanov Economics Academy (Russia), The Technion University (Israel), Karlsruhe Institute of Technology (Germany), McMaster University, Queens University, University of Sevilla (Spain), University of Avignon (France), Nanzan University (Japan), City University of Hong Kong (Hong Kong)

Conference organizer for ISOLDE XIV (Canada, 2017). Scientific Committee member for ISOLDE XII (Japan, 2012), ISOLDE XIII (Naples, 2014) and ISOLDE XV (Germany, 2021). ISOLDE is the premier international conference on Location Theory.

Session Organizer and Session Chair for a number of international conferences in Operations Research (INFORMS, ISOLDE, EURO, INFORMS International, CORS)

Co-organizer (with O. Baron) and speaker, Academic Conference in Honor of Oded Berman (Toronto, 2012)

Organizing Committee member for EWGLA 2015 (Budapest). EWGLA is the main European conference on Location Theory

Organizing Committee member for MSOM 2015 (Toronto). MSOM is the keynote conference of the Manufacturing and Services Operations Society

RESEARCH GRANTS

“New Directions in Locational Analysis, Environmental Modelling and Humanitarian Logistics”, NSERC, 2015-2020, \$110,000

“Service System Design for Efficiency and Environmental Sustainability”, NSERC, 2010-2014, \$100,000

“Design of Efficient Distributed Service Systems”, NSERC, 2005-2010, \$112,000

“Optimization Models in Location, Marketing and Environmental Management”, NSERC, 2001-2005, \$112,000

“Dynamic Optimization Models in Location and Inventory”, NSERC, 1997-2001, \$80,000

“Non-standard applications of Markov Decision Processes”, NSERC, \$60,000, 1993-97

“Laboratory for Manufacturing Research”, NSERC, \$11,385 in 1997-98, \$28,000 in 1995-96 (joint with O. Berman, S. Sethi)

“Algorithmic Approaches to Traveling Salesman Problem via Markov Decision Processes”, Connaught Grant, Univ. of Toronto, \$30,000, 1990-1993

WORK EXPERIENCE

- 1989–present** Rotman School of Management, University of Toronto,
Toronto, Canada
Sydney Cooper Chair in Business and Technology (2018-present)
Academic Director (founding), Master of Management Analytics (2017-present)
Professor of Operations Management, Management Science and Statistics, (2002 - present)
Associate Professor, tenured (1994-2002)
Assistant professor (1989-1994)
- 1983–1984** Control Data Corporation, Greenwich, Connecticut
Development Programmer

EDUCATION

- 1989** Ph.D., Operations Research, Johns Hopkins University, Maryland.
Dissertation: “*Contributions to the Theory and Applications of Markov Decision Processes*”. Supervisors: Dr. J. A. Filar, Dr. A.J. Goldman
- 1986** M.S. (Eng.), Operations Research, Johns Hopkins University
- 1984** B.S. (hons.) Mathematics, University of Chicago

PERSONAL INFORMATION

Canadian and US Citizenship

REFERENCES

Available upon request

LIST OF PUBLICATIONS

Refereed Research Papers Published or Accepted for Publication (current and former graduate students and post-doctoral fellows underlined)

1. “A Weighted Markov Decision Process”, *Operations Research*, **40**(6), 1992, pp. 1180-1187. Co-authored with J. A. Filar and S. Sinha. (*Honourable mention: George Nicholson Prize)
2. “Hamiltonian Cycles, Markov Chains and Entropy-like Functions”, *Math. of Operations Research*, **19**(1), 1994, pp. 223-237. Co-authored with J. A. Filar.
3. “Some Complexity Issues in a New class of Knapsack Problems”, *INFOR*, special issue on Knapsacks and Cutting, **32**(3), 1994. Co-authored with S. Sethi and G. Sorger.
4. “Percentile Performance Criteria for Limiting Average Markov Control Problems”, *IEEE Transaction on Automatic Control*, **40**(1), 1995, pp. 2-10. Co-authored with J. Filar and K. Ross.

5. "Locating Discretionary Service Facilities Based on Probabilistic Customer Flows", *Transportation Science*, **29**(3), 1995, pp. 276-290. Co-authored with O. Berman and C.-W. Xu.
6. "Flow-Interception Problems", in *Facility Location*, Z. Drezner, ed., Springer, 1995, pp. 389-425. Co-authored with O. Berman and J. Hodgson.
7. "Locating Flow-Intercepting Facilities: New Approaches and Results", *Annals of Oper. Res.* **60**, 1995, pp. 121-143. Co-authored with O. Berman and C.-W. Xu.
8. "Flow Intercepting Spatial Interaction Models", *Studies in Locational Analysis*, 9, 1996, pp. 19-21. Co-authored with O. Berman.
9. "A Generalized Discretionary Service Facility Location Models With Probabilistic Customer Flows", *Stochastic Models*, **13**(1), 1997. Co-authored with O. Berman and C.-W. Xu.
10. "Flow intercepting spatial interaction model: a new approach to optimal location of competitive facilities", *Location Science*, **6**, 1998, pp. 41-65. Co-authored with O. Berman
11. "Ecological production: on the optimal level of pollution-related fines", *Engineering Ecology*, 2, 1999, 23-27 (in Russian). Co-authored with Nedorezov, T.L., Khlebopros, R.G., Fomin, D.O.
12. "On a negative effect in selecting the level of pollution-related fines", *Engineering Ecology*, 1, 2000, pp. 41-51 (in Russian). Co-authored with Nedorezov, T.L., Khlebopros, R.G.
13. "On the solution of problems in ecological economics using game theory", *Engineering Ecology*, 2, 2000, pp. 41-46. Co-authored with T.L. Nedorezov and R.G., Khlebopros.
14. "Analysis of supply contracts with minimum total order quantity commitments", *European Journal on Operational Research*, 131(2), 2001, pp 81-95. Co-authored with F.Y. Chen.
15. "Inventory Models With Minimal Service Level Constraints", *European Journal of Operations Research*, 134(1), 2001, pp. 120-141. Co-authored with F.Y. Chen.
16. "Dynamic Lot Sizing With Returning Items and Disposals", *IIE Transactions*, **34**(5), 2002, 437-448. Co-authored with J. Beltran.
17. "Facility Location Problems with Stochastic Demand and Congestion", Chapter 11 in *Location Theory: Applications and Theory*, Z. Drezner and H. Hamacher, eds., Springer-Verlag, 2002. Co-authored with O. Berman
18. "Generalized Maximum Cover Location Problem", *Computers and Operations Research*, 29, 2002, pp 563-581. Co-authored with O. Berman.
19. "Locating Multiple Competitive Facilities: Spatial Interaction Models with Variable Expenditures", *Annals of Operations Research*, 111, 2002, pp. 197-225. Co-authored with O. Berman
20. "Target State-Action Frequencies in Average Reward Markov Decision Process", *Math. of Operations Research*, 27(3), 2002, pp. 545-567. Co-authored with O.J. Vrieze.
21. "Gradual Covering Decay Location Problem on a Network", *European Journal of Operations Research*, 151, 2003, pp. 474-480. Co-Authored with O. Berman, Z. Drezner
22. "A Transfer/Clearing Inventory Model Under Sporadic Review", *Mathematical Methods of Operations Research*, 57(2), 2003, pp. 329-344. Co-Authored with O. Berman, and D. Perry
23. "An Improved IP Formulation for the Uncapacitated Facility Location Problem", *Annals of Operations Research*, 136, 2005, pp. 21-34. Co-authored with O. Berman.
24. "Locating Service Facilities to Reduce Lost Demand", *IIE Transactions (Scheduling and Logistics)*, 38, 2006, 933-946. Co-authored with O. Berman and J. Wang.

25. "University of Toronto's Rotman School of Management Uses Management Science to Create MBA Study Groups", *Interfaces*, 36(2), 2006, pp.126-137. Co-authored with A. Ovtchinnikov.
26. "Competitive Facility Location Model with Concave Demand", *European Journal of Operations Research*, 181, 2007, 598-619. Co-authored with R. Aboolian and O. Berman.
27. "Reliability Issues, Strategic Co-Location and Centralization in m-Median Problems", *Operations Research*, 55(2), 2007, 332-350. Co-authored with O. Berman and M. Menezes.
28. "Competitive Facility Location and Design Problem", *European Journal of Operations Research*, 182, 2007, 40-62. Co-authored with R. Aboolian and Oded Berman
29. "The Equitable facility Location Problem on a Plane", *European Journal of Operations Research*, 183(2), 2007, 578-590. Co-authored with O. Baron, O. Berman, and Q. Wang.
30. "Facility Location with Stochastic Demand and Constraints on Waiting Time", *MSOM*, 10(3), 2008, 484-505. Co-authored with O. Baron and O. Berman.
31. "Optimizing Pricing and Location Decisions for Competitive Service Facilities Charging Uniform Price", *Journal of the Operational Research Society*, 59, 2008, 1506-1520. Co-authored with R. Aboolian and O. Berman
32. "Efficient Solution Approaches for Discrete Multi-Facility Competitive Interaction Model", *Annals of Operations Research*, 167, 2009, 297-306. Co-authored with R. Aboolian and O. Berman
33. "A Facility Location Model for Urban Hierarchy Planning", *Environment and Planning A*, 41, 996-1016, 2009. Co-authored with A. Antunes, J. Bigotte and O. Berman
34. "Ensuring Feasibility in Location Problems with Stochastic Demands and Congestion", *IIE Transactions*, 41(5), 468-481, 2009. Co-authored with O. Baron, O. Berman, and S. Kim.
35. "Variable Radius Covering Problem", *European Journal of Operations Research*, 196, 516-525, 2009. Co-authored with O. Berman, Z. Drezner, O. Wesolowsky
36. "Optimal facility Location in the Presence of Disruptions and Incomplete Information", *Decision Sciences*, 40(4), 2009, 845-868. Co-authored with O. Berman and M. Menezes
37. "Modeling Competitive Facility Location Problems: New Approaches and Results", invited chapter in *Tutorials in Operations Research*, M. Oskoorouchi, ed., INFORMS, 156-181, 2009. Co-authored with O. Berman, Z. Drezner, T. Drezner
38. "Ordered Gradual Covering Location Problem on a Network", *Discrete Applied Mathematics*, 157, 2009, 3689-3707. Co-authored with O. Berman, J. Kalcsics, S. Nickel
39. "Cooperative Covering Location Problems: The Planar Case", *IIE Transactions*, 42, 2010, 232-246. Co-authored with O. Berman and Z. Drezner
40. "Generalized Coverage: New Developments in Covering Location Models", *Computers and Oper. Res.*, 37, 2010, 1675- 1687. Co-authored with O. Berman and Z. Drezner
41. "Constraint Multi-Attribute Group Balancing: Why does it Work?" *European Journal of Operations Research*, 206, 2010, 144-154. Co-authored with A. Ovchinnikov
42. "Integrated Modeling Of Urban Hierarchy And Transportation Network Planning", *Transportation Research A*, 44, 2010, 506-522 . Co-authored with A. Antunes, O. Berman, J. Bigotte
43. "Early Work on the Introduction of Stochastic Analysis in Location Research", Invited Chapter for *Foundations of Location Analysis*, H.A. Eiselt and V. Marianov, eds., International Series Operations Research and Management, Springer, v. 155, 2011, 241-272. Co-authored with O. Berman and J. Wang

44. "On the Benefits of Risk Pooling in Inventory Management", *Production and Operations Management*, 20 (1), 2011, 57-71. Co-authored with O. Berman and M. Mahdi Tajbakhsh
45. "Big Segment Small Segment Global Optimization Algorithm on Networks", *Networks*, 58, 2011, 1-11. Co-authored with O. Berman and Z. Drezner
46. "Discrete Cooperative Covering Problems", *Journal of the Oper. Res. Soc.*, 62, 2011, 2002-2012. Co-authored with O. Berman and Z. Drezner
47. "On n-Facility Median Problem With Facilities Subject to Failure Facing Uniform Demand", *Discrete Applied Mathematics*, 159, 2011, 420-432. Co-authored O. Berman
48. "The Probabilistic Gradual Covering Problem on a Network with Discrete Demand Weights", *Computers and Operations Research*, 38(11), 2011, 1493-1500. Co-authored with O. Berman, and J. Wang
49. "Optimal Search Path for Service in the Presence of Disruptions", *Computers and Operations Research*, 38(11), 2011, 1562-1571. Co-authored with O. Berman and E. Iarovsky
50. "Modeling the effectiveness of government support measures in mining and mineral processing" (in Russian), *Nature Management Economics*, 4, 2011, 54-63. Co-authored with A. Novoselov.
51. "A Coordinated Location-Inventory Model", *European Journal of Operations Research*, 271(3), 2012, 500-508. Co-authored with O. Berman and M. Mahdi Tajbakhsh
52. "Profit Maximizing Service System Design with Congestion and Elastic Demand", *Transportation Science*, 246(2), 2012, 247-261. Co-authored with R. Aboolian and O. Berman
53. "The Maximum Covering Problem with Travel Time Uncertainty", *IIE Transactions*, 45(1), 2013, 81-96. Co-authored with O. Berman and I. Hajizadeh (*Winner: Best Application Paper Award, IIE, 2013)
54. "Environmental Taxes and the Choice of Green Technology", *Production and Operations Management*, 22(5), September–October 2013, 1035–1055. Co-authored with A. Ovchinnikov and T. Nedorezov
55. "Location and Reliability Problems on a Line: Impact of Objectives and Correlated Failures on Optimal Location Patterns", *Omega*, 41, 2013, 766-779. Co-authored with O. Berman and M. Menezes
56. "Continuous Covering and Cooperative Covering Problems with a General Decay Function on Networks", *Journal of the Oper. Res. Soc.*, 64, 2013, 1644–1653. Co-authored with O. Berman and Z. Drezner
57. "Using Strategic Idleness to Improve Customer Service Experience in Service Networks", *Operations Research*, 62(1), January-February, 2014, 123-140. Co-authored with O. Baron, O. Berman, J. Wang (*Winner: Best Student Paper Prize, Queuing Interest group, CORS 2014)
58. "The Relationship Between Population Dynamics And Urban Hierarchy: Evidence from Portugal", *International Regional Science Review*, 37(2), 2014, 149-171. Co-authored with J. Bigotte, A. Antunes, O. Berman
59. "Cooperative Covering Problems on Networks", *Networks*, 63(4), 2014, 334–349. Co-authored with I. Averbakh, O. Berman, J. Kalcsics, S. Nickel
60. "Supporting New Product or Service Introductions: Location, Marketing, and Word of Mouth", *Operations Research*, 62(5), 2014, 994-1013. Co-authored with V. Abedi, O. Berman
61. "Stochastic Location Models with Congestion", Chapter 17 in *Location Science*, G. Laporte, S. Nickel, F. Saldanha-da-Gama (eds), Springer, 2015

62. "Structural Properties of Voronoi Diagrams in Facility Location Problems with Continuous Demand", *Operations Research*, 63(2), 2015, 394-411. Co-authored with I. Averbakh, O. Berman, J. Kalcsics
63. "On Covering Location Problems on Networks with Edge Demand", *Computers and Operations Research*, 74, 2016, 214-227. Co-authored with O. Berman and J. Kalcsics
64. "Directed assignment vs Customer Choice in Location Inventory Models", *Int. J. of Prod. Economics*, 179, 2016, 179-191. Co-authored with O. Berman and M. Menezes
65. "Strategic Idling and Dynamic Scheduling in an Open-shop Service Network: Case Study and Analysis", *MSOM*, 19(1), 2017, 52-71. Co-authored with O. Berman, O. Baron and J. Wang
66. "Reconfiguring a Set of Coverage-Providing Facilities under Travel Time Uncertainty", *Socio-Economic and Planning Sciences*, 62, 2018, 1-12. Co-authored with O. Berman, I. Hajizadeh, A. Rahimi-Vahed
67. "Truthful Cheap Talk: Why Operational Flexibility May Lead to Truthful Communicaiton" *Management Science*, 65(4), 2019, 1624-1641. Co-authored with O. Berman, M. Fazel-Zarandi
68. "Multiple Gradual Cover Location Problem", *Journal of the Oper. Res. Soc.*, 70(6), 2019, 931-940. Co-authored with O. Berman and Z. Drezner
69. "Stochastic Location Models with Congestion, revised", Chapter 17 in *Location Science*, 2nd Edition. G. Laporte, S. Nickel, F. Saldanha-da-Gama (eds), Springer, 2019
70. "Why are We Emulating Italy Instead of South Korea?", *Health Management Policy Innovation*, (HMPI.org), volume 5, Issue 1, special issue on COVID-19, March 2020
71. "Optimizing Facility Location and Design", *European Journal of Operations Research*, to appear, 2020. Co-authored with R. Aboolian and O. Berman

Papers Published in Refereed Conference Proceedings and Other Publications

1. "The Embedding of the Travelling Salesman Problem in a Markov Decision Process", *Proc. of the 26th IEEE Conference on Decision and Control*, (1987) pp. 2255-2263. Co-authored with J.A. Filar.
2. "Percentile Objective Criteria in Limiting Average Markov Control Problems", *Proc. of the 28th IEEE Conference on Decision and Control*, (1989) pp. 1273-1276. Co-authored with J.A. Filar and K. Ross.
3. "Demand Forecasting Based on Pre-Season Surveys", *Progress-94: International Conference on the Problems of Development of Non-polluting, Resource-Conserving, Ecologically Friendly Technologies for Textile and Light Industries*, Ivanovo, Russia (1994), pp. 165-167 (in Russian). Co-authored with M. Varkovetsky.
4. "Service Levels in Inventory Models – A Brief Literature Survey", *5-th International Conference of the Decision Sciences Institute*, Athens, Greece, 1999. Co-authored with F. Y. Chen
5. "Recent Developments in Theory and Applications of Facility Location Models: Volume Overview", *Annals of Operations Research*, 111, 2002, with Oded Berman
6. "Teaching Case: Timeshare Exchange Fair", *Proceedings of Conference of the Decision Science Institute*, San Francisco, 2005, pp 17675 – 17676. With A. Ovchinnikov and S. Sampson
7. "Timeshare Exchange Fair", Case and Teaching Note, *Decision Science Institute 2005 case competition* (*Selected as one of the three finalists) and *INFORMS 2005 case competition* (*Selected as one of four finalists), with A. Ovchinnikov and S. Sampson

8. "Inventory-Location Models for Remote and Direct Retailing with Time-Sensitive Demand ", *Proceedings of 2007 IEEE IEEM Conference*, Singapore, 2007, pp.342-357, with O. Berman and M. Menezes. (*Honourable mention: Best Paper Award, IEEEEM 2007)
9. "Optimizing Integrated Direct Marketing Campaigns", *Proceedings of 2008 INFORMS Conference on OR Practice*, Baltimore, 2008, 336-341.
10. "Environmental Taxes and Green Technology Choice: Analytical Framework", *Proceedings of the 1-st International Conference on Resource Economics, Climate Change and Sustainability*, Krasnoyarsk, Russia, 2009. With R. Khlebopros, T. Nedorezov, A. Ovchinnikov.
11. "Environmental Taxes and the Choice of Pollution-Reducing Technology: Monopoly Case", *Proceedings of the 1-st International Conference on Resource Economics, Climate Change and Sustainability*, Krasnoyarsk, Russia, 2009. With T. Nedorezov, A. Ovchinnikov,
12. "A Bi-level Model Maximizing Effectiveness of State Regulations Affecting Resource-Intensive Industries", *Proceedings of the 15-th International Conference on Contemporary Management Problems: Economic Modernization and Innovation*, Moscow, Russia, 2010. With A. Novoselov
13. "Virtual Depot Approximation for the Transshipment Problem", *Proceedings of 2012 IEEM Conference*, Hong Kong, 2012, pp. 1434-1438, with A. Shlakhter
14. "Pricing, Location and Capacity Planning with Congestion in Stochastic Location Models", *Proceedings of the WDSI Conference*, Napa Valley, CA, Apr. 2014. With O. Berman and D. Tong
15. "Strategic Idling and Dynamic Scheduling in an Open-shop Service Network", *Proceedings of WDSI Conference*, Maui, April, 2015. With O. Baron, O. Berman, J. Wang,
16. "Marketplace Helps Manage PPE Supply Chains", *OR/MS Today*, Oct. 8, 2020. With P. Afeche, O. Baron, M. Hu, D. Krass.

Research Papers under Review and Submitted for Publication

1. "Pricing, Location and Capacity Planning of Service Facilities under Congestion", Under revision for *IIE*, with O. Berman and D. Tong (7/19)
2. "Strategic Media Planning for New Products", with V. Abedi, O. Berman, and F. Feinberg, under revision for *Production and Operations Management* (7/20)
3. "Location Problems with Continuous Demand and Unreliable Facilities: Applications of Families of Incremental Voronoi Diagrams", with I. Averbakh, O. Berman, J. Kalcics, accepted subject to a minor revision to *Discrete Applied Mathematics* (1/21)
4. "Developing a Pre-Testing Diagnostic Tool for COVID-19 Using Big Data Predictive Analytics", with R. Elitzur and E. Zimlichman, submitted to *Health Data Science* (3/21)

SELECTED CONFERENCE PRESENTATIONS (FROM 1997 AND LATER):

1. O. Berman, D. Krass, "Flow intercepting spatial allocation models:", INFORMS, Dallas, October 1997
2. O. Berman, Y. He, D. Krass, "Managing college admissions: hitting the enrolment target by dynamic control", INFORMS, Dallas, October 1997
3. D. Beyer, J. Beltran, D. Krass, "Stochastic inventory model with return policies", INFORMS, Dallas, October 1997
4. D. Krass, J. Beltran, "Dynamic lot-sizing with returning items and disposals", INFORMS, Montreal, April, 1998

5. O. Berman, D. Krass, "Generalised spatial interaction location models", INFORMS, Montreal, April, 1998
6. O. Berman, D. Krass, "Generalised maximum cover weight problem", INFORMS, Seattle, November, 1998
7. O. Berman, Yi He, D. Krass, "Dynamic enrolment target control in college admission procedures", INFORMS, Seattle, 1998
8. O. Berman, D. Krass, "Generalised spatial interaction models: a new paradigm for competitive facility location", ISOLDE VIII, Coimbra & Estoril, Portugal, June 1999
9. O. Berman, D. Krass, "New approaches to location of competitive facilities: modelling market expansion and cannibalisation", INFORMS, Philadelphia, November, 1999
10. O. Berman, Yi He, Dmitry Krass, "Dynamic Control for Target Hitting", INFORMS, Philadelphia, 1999
11. O. Berman, D. Krass, "On strong and weak formulations of maximum cover location problems: is stronger necessarily better?", INFORMS, Salt Lake City, May, 2000
12. R. Aboolian, O. Berman, D. Krass, "Generalised spatial interaction location models with exponential expenditure functions", INFORMS, Salt Lake City, May, 2000
13. D. Krass, I. Krass, K. Krass, "Scheduling promotions using market structure analysis and network optimisation", INFORMS, Salt Lake City, May 2000
14. O. Berman, D. Krass, "Generalised spatial interaction model with linear and non-linear expenditure functions", EURO XVII, Budapest, July, 2000
15. R. Aboolian, O. Berman, D. Krass, "Optimising Attraction Levels of Competitive Facilities", INOFRMS 2000, San Antonio, November, 2000
16. O. Berman, D. Krass, "A framework for Locating Competitive Facilities on a Network", INFORMS 2000, San Antonio, November, 2000
17. O. Berman, D. Krass, "Facility Location Models With Stochastic Demand and Congestion", INFORMS International, Hawaii, June, 2001
18. O. Berman, D. Krass, "Location Problems with Stochastic Demand and Congestion", INFORMS 2001, Miami, November, 2001
19. R. Aboolian, O. Berman, D. Krass, "Efficient Solution Approach for a Class of Concave Integer Programming Models", INOFRMS 2001, Miami, November, 2001
20. O. Berman, D. Krass, "Recent Results on Maximum Cover Location Model and its Generalizations", ISOLDE IX, New Brunswick, June 2002
21. O. Berman, D. Krass, S. Kim, "A New Approach to Location of Mobile Servers Under Congestion", 1-st Madrid Conference on Queuing Theory, July, 2002
22. O. Berman, D. Krass, M. Wang, "Locating Service Facilities to Minimize Lost Demand", IFORS 2002, Edinburgh, July 2002
23. O. Berman, D. Krass, Z Drezner, "Gradual Cover Location Model", INFORMS 2002, San Jose, November 2002
24. O. Berman, D. Krass, A. Ovtchinnikov, "Maximizing Equity in Zoning Problems", INFORMS 2002, San Jose, November 2002
25. O. Berman, D. Krass, S Kim, "A New Approach to Locating Mobile Servers on a Network With Stochastic Demand", INFORMS 2002, San Jose, November 2002
26. O. Berman, H. Qian, D. Krass, "Technology Impact on Competition With Remote Service Delivery", INFORMS 2002, San Jose, November 2002

27. D. Krass and D. Beaton, "Timely Answers to Tough Questions: Adscope Suite of Tools", Canadian Marketing Association Conference, Toronto, March 2003
28. O. Berman, D. Krass, M. Menezes, "The Median Problem with Unreliable Facilities", EURO/INFORMS 2003, Istanbul, July 2003
29. R. Aboolian, O. Berman, D. Krass, "Competitive Facility Location and Design Problems – a Framework", EURO/INFORMS 2003, Istanbul, July 2003
30. O. Berman, D. Krass, S Kim, "Model for Locating Mobile Servers on a Network With Stochastic Demand", CanQueue 2003, Toronto, September 2003
31. R. Aboolian, O. Berman, D. Krass, "An Efficient Approach for Flow Intercepting Spatial Interaction Model", INFORMS 2003, Atlanta, October 2003
32. R. Aboolian, O. Berman, D. Krass, "Competitive Facility Location and Design Problem", INFORMS 2003, Atlanta, October 2003
33. O. Berman, D. Krass, M. Menezes, "The Median Problem and Reliability of Facilities", INFORMS 2003, Atlanta, October 2003
34. O. Berman, D. Krass, M. Menezes, "MiniSum Location Problem with Unreliable Facilities and Imperfect Information", INFORMS 2003, Atlanta, October 2003
35. R. Huang, D. Krass, "Computing the Winning Bid in a Combinatorial Auction with Quantity Discounts", INFORMS 2003, Atlanta, October 2003
36. O. Berman, D. Krass, M. Menezes, "Location Problems with Unreliable Facilities and Imperfect Information", CORS/INFORMS International, Banff, May 2004
37. R. Aboolian, O. Berman, D. Krass, "Optimising Design and Location of Competitive Facilities", CORS/INFORMS International, Banff, May 2004
38. R. Aboolian, O. Berman, D. Krass, "Competitive Facility Location and Design Problem", EURO, Rhodes, May 2004
39. D. Krass, A. Ovtchinnikov, "On the feasibility of maximum diameter zone design", INFORMS 2004, Denver, October 2004
40. O. Baron, O. Berman, D. Krass, "Stochastic Location of facilities on a Line". INFORMS 2004, Denver, October 2004
41. D. Krass, A. Ovtchinnikov, "Creating well-balanced student groups", DSI 2004, Boston, November, 2004
42. O. Berman, S. Huang, D. Krass, M. Menezes, "Reliability vs. Travel Distance Trade-offs in Facility Location Problems", ISOLDE X, Sevilla-Islantilla, Spain, June 2005
43. J. Bigotte, A. Atunes, O. Berman, D. Krass, "On the relationship between the demographic dynamics and urban hierarchies: empirical evidence from Portugal", ISOLDE X, Sevilla-Islantilla, Spain, June 2005
44. J. Bigotte, A. Atunes, O. Berman, D. Krass, "A modeling framework for comprehensive public facility location", ISOLDE X, Sevilla-Islantilla, Spain, June 2005
45. D. Krass, A. Ovtchinnikov, "Perfectly balanced multi-attribute set partitioning problem", INFORMS 2005, San Francisco, November, 2005
46. R. Aboolian, O. Berman, D. Krass, "Special Cases of Competitive Facility Location and Design Problem", INFORMS 2005, San Francisco, November, 2005
47. O. Baron, O. Berman, D. Krass, "Facility Location with Stochastic Demand and Constraints on a Plane". INFORMS 2005, San Francisco, November, 2005
48. O. Berman, S. Huang, D. Krass, M. Menezes, "Reliability vs. Travel Distance Trade-offs in Facility Location Problems", INFORMS 2005, San Francisco, November, 2005

49. D. Krass, A. Ovtchinnikov, "Timeshare Exchange Case", INFORMS 2005, San Francisco, November, 2005
50. D. Krass, A. Ovtchinnikov, "Timeshare Exchange Case", DSI 2005, San Francisco, November, 2005
51. B. Liu, O. Berman, D. Krass, "Monopolist Pricing and Location Problem on a Network", CORS/Optimization Days, Montreal, May, 2006
52. D. Krass, R. Aboolian, O. Berman, "Optimizing Pricing and Location Decisions for Competitive Service Facilities Charging Uniform Price", CORS/Optimization Days, Montreal, May, 2006
53. D. Krass, O. Baron, O. Berman, "Facility Location with Stochastic Demand and Constraints on Waiting Time", CORS/Optimization Days, Montreal, May, 2006
54. O. Berman, D. Krass, S. Kim, "Service Disciplines in Location Set Covering Problems with Stochastic demands and Congestion", INFORMS 2006, Pittsburgh, November 2006
55. O. Berman, D. Krass, B. Liu, "Monopoly's Location and Spatial Pricing Strategies", INFORMS 2006, Pittsburgh, November 2006
56. R. Aboolian, O. Berman, D. Krass, "Network Location With Uniform Pricing", INFORMS 2006, Pittsburgh, November 2006
57. O. Berman, D. Krass, M. Menezes, "Inventory-Location Problems in the Presence of Time-Sensitive Consumer Demand", INFORMS 2006, Pittsburgh, November 2006
58. O. Berman, D. Krass, M. Menezes, "Constraint Center Problem With Unreliable Facilities", INFORMS 2006, Pittsburgh, November 2006
59. O. Berman, Z. Drezner, D. Krass, G. Weselowsky, "The Variable Radius Cover Problem", INFORMS 2006, Pittsburgh, November 2006
60. D. Krass, A. Ovchinnikov, "Exact Multi-attribute Set Partitioning: Why Does it Work?", CORS 2007 Annual Conference, London, ON, May 2007
61. O. Berman, D. Krass, M. Menezes, "Locating facilities in the Presence of Time-Sensitive Demand", EURO XXIII, Prague, July 2007
62. O. Berman, D. Krass, M. Menezes, "Reliability and the Centre Problem", EURO XXIII, Prague, July 2007
63. D. Krass, A. Ovchinnikov, "Exact Multi-attribute Group Balancing: Why Does it Work?", INFORMS 2007, Seattle, November 2007
64. R. Aboolian, O. Berman, D. Krass. "Profit-Maximizing Service System Design with Elastic Demand and Congestion", INFORMS 2007, Seattle, November 2007
65. O. Berman, D. Krass, M. Menezes, "Impact of Time-Sensitive Demand on Facility Locations", INFORMS 2007, Seattle, November 2007
66. O. Berman, D. Krass, D. Tong, "Revenue-Driven Elastic Demand and Congestion Model", INFORMS 2007, Seattle, November 2007
67. O. Berman, D. Krass, D. Tong, "Revenue-Driven Elastic Demand and Congestion Model", INFORMS 2007, Seattle, November 2007
68. R. Aboolian, O. Berman, D. Krass, "Identifying Optimal Design in Competitive Facility Location and Design Problem", INFORMS 2007, Seattle, November 2007
69. O. Berman, D. Krass, M. Menezes. "Inventory-Location Models for Remote and Direct Retailing with Time-Sensitive Demand ", IEEM2007 Conference, Singapore, Dec. 2007
70. Aboolian, R., O. Berman and D. Krass, "Maximizing Participation Benefits in a Socially Optimal Service System Design," WDSI, San Diego, 2008

71. D. Krass. "Optimizing Integrated Direct Marketing Campaigns", 2008 INFORMS Conference on OR Practice, Baltimore, April 2008.
72. D. Krass, "Unlocking Hidden Profits: The Next Step In Optimizing Direct Marketing", Canadian Marketing Association Convention, Toronto, May 2008
73. O. Berman, I. Hajizadeh, D. Krass, "The Stochastic Covering Problem with Risky Links", CORS/JOPT 2008, Quebec City, May, 2008
74. O. Berman, D. Krass, M.M. Tajbakhsk, "A Periodic Location-Inventory Model with Time-Sensitive Demand", CORS/JOPT 2008, Quebec City, May, 2008
75. O. Berman, D. Krass, D. Tong, "Facility Location and Revenue Optimization under Equilibrium-Driven Demand and Congestion", CORS/JOPT 2008, Quebec City, May, 2008
76. R. Aboolian, O. Berman, D. Krass, "Profit-Maximizing Service System Design with Elastic Demand and Congestion", ISOLDE XI, Santa Barbara, June 2008
77. J. Bigotte, A. Antunes, O. Berman, D. Krass, "A model for urban hierarchy and transportation network planning", ISOLDE XI, Santa Barbara, June 2008
78. O. Berman, D. Krass, D. Tong, "Revenue-Optimizing Location Model with Equilibrium-driven Demand and Congestion", ISOLDE XI, Santa Barbara, June 2008
79. Z. Drezner, O. Berman, D. Krass, "Advances in Covering Problems", *keynote presentation*, ISOLDE XI, Santa Barbara, June 2008
80. O. Berman, D. Krass, D. Tong, "Facility Location and Revenue Optimization under Equilibrium-Driven Demand and Congestion", International Workshop on Applied Probability, Campiegne, France, July 2008.
81. O. Berman, D. Krass, M.M. Tajbakhsk, "A Newsboy Location-inventory Model with Time-sensitive Demands", INFORMS 08, Washington, DC, November, 2008
82. O. Berman, D. Krass, D. Tong, "Facility Location and Revenue Optimization under Equilibrium-driven Demand and Congestion", INFORMS 08, Washington, DC, November, 2008
83. O. Berman, O. Baron, D. Krass, S. Kim, "The Network Design of Spatially Distributed Service Systems with Two Prioritized Call Classes", INFORMS 08, Washington, DC, November, 2008
84. O. Berman, D. Krass, M. Menezes, "Median and Minimax Unreliable Facility Location Problems: Impact of Correlation", INFORMS 08, Washington, DC, November, 2008
85. O. Berman, D. Krass, J. Wang, "The Probabilistic Gradual Covering Problem on a Network with Discrete Demand Weights", INFORMS 08, Washington, DC, November, 2008
86. R. Aboolian, O. Berman, D. Krass, "Spatially-Distributed Make-to-Order System with Time-Sensitive Demand", INFORMS 08, Washington, DC, November, 2008
87. O. Berman, I. Hajizadeh, D. Krass, "Robust Coverage Location Problems under Travel Time Uncertainty", INFORMS 08, Washington, DC, November, 2008
88. O. Berman, D. Krass, D. Tong, "Optimal Facility Location and Service Pricing Under Traffic Equilibrium", CORS-INFORMS International, Toronto, 2009
89. O. Berman, I. Hajizadeh, D. Krass, "Ensuring Coverage Under Travel Time Uncertainty", CORS-INFORMS International, Toronto, 2009
90. O. Berman, Z. Drezner, D. Krass, "Cooperative Cover Objective in Location Models", CORS-INFORMS International, Toronto, 2009
91. O. Berman, D. Krass, J. Wang, "Stochastic Location Analysis: Its Origin and Development", CORS-INFORMS International, Toronto, 2009

92. O. Berman, O. Baron, S. Kim, D. Krass, "The Network Design of Spatially Distributed Service Systems with Two Prioritized Call Classes", CORS-INFORMS International, Toronto, 2009
93. O. Berman, D. Krass, M.M. Tajbakhsh, "Coordinating Replenishment Periods in Location-Inventory Model", CORS-INFORMS International, Toronto, 2009
94. Berman, D. Krass, M.M. Tajbakhsh, "Coordinating Replenishment Periods in Location-Inventory Model", EURO-23, Bonn, 2009
95. D. Krass, R. Khlebopros, T. Nedorezov, A. Ovchinnikov, "Environmental Taxes and Green Technology Choice: Analytical Framework", Conference on Resource Economics, Climate Change and Sustainability, Krasnoyarsk, Russia, 2009
96. D. Krass, T. Nedorezov, A. Ovchinnikov, "Environmental Taxes and the Choice of Pollution-Reducing Technology: Monopoly Case", Conference on Resource Economics, Climate Change and Sustainability, Krasnoyarsk, Russia, 2009
97. O. Berman, Z. Drezner, D. Krass, "Big Segment Small Segment Global Optimization Algorithm on Networks", INFORMS 09, San Diego, October 2009
98. Berman, D. Krass, M.M. Tajbakhsh, "On the Benefits of Risk Pooling in Inventory Management", INFORMS 09, San Diego, October 2009
99. O. Berman, D. Krass, D. Tong, "Optimal Location, Pricing and Capacity Planning under Elastic Demand and Uncertainty", INFORMS 09, San Diego, October 2009
100. O. Berman, Z. Drezner, D. Krass, "Cooperative Coverage", INFORMS 09, San Diego, October 2009
101. D. Krass, T. Nedorezov, A. Ovchinnikov, "Environmental Taxes and the Choice of Pollution-Reducing Technology", INFORMS 09, San Diego, October 2009
102. O. Berman, I. Hajizadeh, D. Krass, "Relocating Coverage Providing Facilities under Travel Time Uncertainty", INFORMS 09, San Diego, October 2009
103. O. Berman, O. Baron, S. Kim, D. Krass, "Location Models for Emergency Servers with Two Demand Classes", INFORMS 09, San Diego, October 2009
104. O. Berman, D. Krass, M. Menezes, "Location Reliability Problems - Linear Case", INFORMS 09, San Diego, October 2009
105. O. Berman, T. Drezner, Z. Drezner, D. Krass, "Tutorial: Modelling Static Competitive Facility Location Problems: New Approaches and Results", INFORMS 09, San Diego, October 2009
106. O. Berman, D. Krass, M.M. Tajbakhsh, "On the Benefits of Risk Pooling in Inventory Management", MSOM 2010, Haifa, June 27-29, 2010
107. O. Berman, O. Baron, J. Wang, D. Krass, "Reducing Waiting Times During Comprehensive Health Assessments", MSOM 2010, Haifa, CORS-INFORMS International, Toronto, June 27-29, 2010
108. O. Berman, D. Krass, M. Menezes, "Median and Centre Problems in a Unit Line: Correlation of facility Disruption", INFORMS International 2010, Buenos Aires, June, 2010
109. O. Berman, D. Krass, M. Menezes, "Location Problems with Two Unreliable facilities on a Line", EURO 2010, Lisbon, July 2010
110. O. Berman, D. Krass, "Median Problem with Unreliable facilities on a Line", EURO 2010, Lisbon, July 2010
111. V. Abedi, O. Berman, D. Krass, "Facility Location and New Product Introduction", INFORMS 2010, Austin, November 2010
112. O. Berman, T. Drezner, Z. Drezner, D. Krass, "Modelling Competitive Facility Location Problems: New Approaches and Results", INFORMS 2010, Austin, November 2010

113. O. Berman, E. Iarovsky, D. Krass, "Optimal Search Path for Service in the Presence of Disruptions", INFORMS 2010, Austin, November 2010
114. O. Berman, D. Krass, "Median Problem with Unreliable facilities on a Line", INFORMS 2010, Austin, November 2010
115. D. Krass, A. Shlakhter, "Centralized Dispatch Approximation for the Transshipment Problem", INFORMS 2010, Austin, November 2010
116. D. Krass, A. Novoselov, "A Bi-level Model Maximizing Effectiveness of State Regulations Affecting Resource-Intensive Industries", 15-th International Conference on Contemporary Management Problems: Economic Modernization and Innovation", Moscow, Russia, November 2010
117. V. Abedi, D. Krass, O. Berman, "Facility location and new product introduction", CORS 2011, St. John's, Newfoundland, Canada, May, 2011
118. D. Krass, A. Shlakhter, "Centralized Dispatch Approximation for the Transshipment Problem", CORS 2011, St. John's, Newfoundland, Canada, May, 2011
119. J. Wang, O. Baron, O. Berman, D. Krass, "Strategic Idleness in Service Networks", MSOM 2011, Ann Arbor, Michigan, June 2011
120. J. Wang, O. Baron, O. Berman, D. Krass, "Reducing Waiting Times During Comprehensive Health Assessments", INFORMS Healthcare 2011, Montreal, Canada, June 2011
121. O. Baron, O. Berman, D. Krass, J. Wang, "Strategic delays in healthcare: Analysis and motivation", APS-2011, Stockholm, Sweden, July 2011
122. I. Averbakh, O. Berman, J. Kalcsics, D. Krass, S. Nickel, "The Cooperative Cover Location Problem on Networks", EWGLA XIX, Nantes (France), 12-14 October 2011
123. V. Abedi, D. Krass, O. Berman, "Facility location and new product introduction", INFORMS 2011, Charlotte, NC, USA, November, 2011
124. Z. Drezner, O. Berman, D. Krass, "Multiple Graduate Cover Problem", INFORMS 2011, Charlotte, NC, USA, November, 2011
125. A. Shlakhter, O. Berman, D. Krass, "Joint Location-Inventory-Transshipment Problem", INFORMS 2011, Charlotte, NC, USA, November, 2011
126. V. Abedi, D. Krass, O. Berman, "Facility location and new product introduction", DSI 2011, Boston, MA, USA, November, 2011
127. D. Krass, A. Shlakhter, O. Berman, "Location and Transshipment Problems", LAND Translog II Conference, Puerto Varas, Chile, December 2011 (keynote address)
128. V. Abedi, O. Berman, D. Krass, "Facility Location and Resource Allocation for a New Product Introduction", 2012 CORS, Niagara Falls, ON, June, 2012
129. A. Shlakhter, O. Berman, D. Krass, "A Joint Inventory-Location-Transshipment Problem", 2012 CORS, Niagara Falls, ON, June, 2012
130. M. Fazel-Zarandi, O. Berman, D. Krass, "Can Supply Chain Flexibility Result in Truthful Revelation of Private Information?", 2012 MSOM, Columbia Business School, New York, NY, June 2012
131. D. Krass, O. Berman, A. Shlakhter, "Inventory Location and Transshipment Problem", EURO 2012, Vilnius, Lithuania, June 2012
132. D. Krass, V. Abedi, O. Berman, "Facility Location and New Product Introduction", ISOLDE XII, Nagoya-Kyoto, July 2012, Japan

133. I. Averbakh, O. Berman, J. Kalcsics, D. Krass, "Location Problems on a Convex Polygon with Continuous Demand: Characterizing the Properties of Voronoi Diagrams", ISOLDE XII, Nagoya-Kyoto, July 2012, Japan
134. A. Shlahkter, O. Berman, D. Krass, "A Joint Inventory-Location-Transshipment Problem", INFORMS 2012, Phoenix, AZ, October 2012
135. J. Wang, O. Baron, O. Berman, D. Krass, "Using Strategic Idleness to Improve Customer Service Experience in Service Networks", INFORMS 2012, Phoenix, AZ, October 2012
136. V. Abedi, O. Berman, D. Krass, "Marketing resource Allocation for New Product Introduction", INFORMS 2012, Phoenix, AZ, October 2012
137. D. Krass, A. Shlahkter, "Virtual Depot Approximation for the Transshipment Problem", IEEE IEEM Conference, Hong Kong, December 2012
138. D. Krass, "Location, Inventory and Transshipment", Urban OR Workshop, Nagoya, Japan, December 2012 (featured speaker)
139. D. Krass, A. Shlahkter, "Virtual depot Approximation" and "Virtual Depot Location Problem", CORS, Vancouver, Canada, May, 2013
140. D. Krass, R. Aboolian, O. Berman, "Competitive Facility Location and design Problem", CORS, Vancouver, Canada, May, 2013
141. J. Kalcsics, I. Averbakh, O. Berman, D. Krass, "Structural Properties of Voronoi Diagrams in Facility Location Problems with Continuous Demand", European Conf. on Comb. Opt. 2013, Paris, France
142. D. Krass, "Capturing market share: facility location and design problems", DOOR-2013: International Conference on Discrete Optimization and Operations Research, Novosibirsk, Russia, June 2013 (plenary speaker)
143. V. Abedi, O. Berman, D. Krass, "Multi-channel Allocation of Marketing Budget for a New Product Introduction in a Segmented Market", EURO 26, Rome, July 2013
144. D. Krass, R. Aboolian, O. Berman, "Competitive Location and Design Problem", EURO 26, Rome, July 2013
145. A. Shlahkter, D. Krass, "Dynamic Long-Term Planning of Ambulance Locations and Assignments", INFORMS, Minneapolis, October 2013
146. D. Krass, R. Aboolian, O. Berman, "Competitive Location and Design Problem", INFORMS, Minneapolis, October 2013
147. D. Krass, A. Suzuki, "Maximizing Trading Area of a new Facility: Planar Case", INFORMS, Minneapolis, October 2013
148. D. Krass, O. Berman, "Pricing, Location and Capacity Planning with Elastic Demand and Congestion", INFORMS, Minneapolis, October 2013
149. J. Wang, O. Baron, O. Berman, D. Krass, "Strategic Idling in a Job-Shop Queuing Healthcare Network – Analysis and Justification", INFORMS, Minneapolis, October 2013
150. D. Krass, O. Berman, D. Tong, "Pricing, Location and Capacity Planning with Congestion in Stochastic Location Models", WDSI, Napa Valley, April 2014
151. O. Berman, J. Kalcsics, D. Krass, "On Covering Location Problems on Networks with Edge Demand", CORS 2014, Ottawa, May 2014
152. O. Berman, I. Hajizadeh, D. Krass, "The Maximum Covering Location Problem with Travel Time Uncertainty", IIE 2014 Annual Conference, Montreal, June 2014

153. O. Baron, O. Berman, D. Krass, J. Wang, "Strategic Idling and Dynamic Scheduling in an Open-shop Service Network -- Case Study and Analysis", Special Interest Group on Healthcare, MSOM 2014, Seattle, June 2014
154. J. Kalcsics, O. Berman, D. Krass, "On Covering Location Problems on Networks with Edge Demand", ISOLDE XIII, Naples-Capri, June 2014
155. D. Krass, O. Berman, D. Tong, "Pricing, Location and Capacity Planning with Congestion in Stochastic Location Models", ISOLDE XIII, Naples-Capri, June 2014
156. R. Aboolian, O. Berman, D. Krass, "Competitive Location and Design Problem: Identifying Optimal Designs", ISOLDE XIII, Naples-Capri, June 2014
157. O. Shlakhter, D. Krass, "Dynamic Long-Term Planning of Ambulance Locations and Assignments", INFORMS, San-Francisco, November, 2014
158. D. Krass, A. Ovchinnikov, "Competitive Response to Environmental Tax Incentives for Green Technology Adoption", INFORMS, San-Francisco, November, 2014
159. V. Abedi, O. Berman, D. Krass, "When and How to Rely on the Word of Mouth for a New Product Introduction", INFORMS, San-Francisco, November, 2014
160. D. Krass, O. Baron, O. Berman, J. Wang, "Using Strategic Idleness to Improve Customer Service Experience In Service Networks", 6-th Int. Conf. on Operations and Supply Chain Management, Bali, December, 2014
161. D. Krass, O. Baron, O. Berman, J. Wang, "Strategic Idling and Dynamic Scheduling in an Open-shop Service Network -- Case Study and Analysis", Western Decision Science Institute Annual Conference, Maui, April, 2015
162. D. Krass, O. Berman, J. Kalcsics, "Covering Location Problems with Edge Demand", EWGLA XXII, Budapest, May, 2015
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