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CURRICULUM VITAE

NAME	Associate Professor Raviv Tal 024391047
Status	Married + 2
Faculty/Dept.	Engineering / Industrial engineering +972-3-6406977, +972-52-2562223
Home Address	Moshe Kol 7/1, Tel Aviv, 052-2562223
Date and place of birth	6.6.1969, Israel

Education

1990-1993	Tel Aviv University, Tel Aviv, Israel Economics BA June 1994
1994-1997	Tel Aviv University, Tel Aviv, Israel Business administration, major Information System, MBA June 1998
1998-2003	Technion, Haifa. Israel Operations Research and Systems Analysis Ph.D. May 2004, **Title of Doctoral Dissertation**: Solving Hard Combinatorial Problems Using Fluid Approximation Approach. **Names of Supervisors**: Michal Penn, Shmuel Onn.

Academic experience

2003-2004	University of Haifa, Haifa, Israel The Caesarea Edmond Benjamin de Rothschild Foundation Institute for Interdisciplinary Applications of Computer Science

Visiting Scholar

2004-2006   University of British Columbia, Vancouver
                   Sauder School of Business, Operations & Logistics Division
                   Postdoctoral Research Associate

2006-2012   Tel Aviv University, Tel Aviv, Israel
                   Department of Industrial Engineering
                   Lecturer

2012-2018   Tel Aviv University, Tel Aviv, Israel
                   Department of Industrial Engineering
                   Senior Lecturer

2018-   Tel Aviv University, Tel Aviv, Israel
                   Department of Industrial Engineering
                   Associate Professor

2015 -2019   Tel Aviv University, Tel Aviv, Israel
                   Department of Industrial Engineering
                   Head of the undergraduate program

2017-   Tel Aviv University, Tel Aviv, Israel
                   Department of Industrial Engineering
                   Head of the Shlomo Shmelzer institute for smart transportation

2021-2023   Tel Aviv University, Tel Aviv, Israel
                   Department of Industrial Engineering
                   Department head

Active participation in scientific meetings

Year	Name of Meeting, City, Country	Role
2001	The 3rd Aegean International Conference on Design and Analysis of Manufacturing Systems, Tinos, Greece	Coauthor
2001	The annual ORSIS meeting, Zikhron Yakov, Israel	Speaker
2002	International Symposium on Combinatorial Optimization Paris, France	Speaker
2002	30th International Conference on Computers and Industrial Engineering, Tinos, Greece	Speaker

2002	INFORMS Annual Meeting, San Jose, USA	Speaker
2003	The annual ORSIS meeting, Ma'ale Ha'hamisha, Israel	Speaker
2003	The 20th European Summer Institute on supply chain management, Grainou, Germany	Speaker
2003	INFORMS Annual Meeting, Atlanta, USA	Speaker
2004	4th Haifa Workshop on Interdisciplinary Applications of Graph Theory and Algorithms, Haifa, Israel	Speaker
2004	The annual ORSIS meeting, Ashkelon, Israel	Speaker
2004	INFORMS Annual Meeting, Denver, USA	Speaker in a sponsored session, Session Chair
2005	The annual ORSIS meeting, Caesarea, Israel	Speaker
2005	INFORMS Annual Meeting, San Francisco, CA, USA	Speaker in a sponsored session
2006	CORS, Montreal, Canada	Speaker
2007	The Third Israeli Industrial Engineering Research Meeting, Tel Aviv, Israel	Speaker
2007	The annual ORSIS meeting, Ma'ale Ha'hamisha, Israel	Speaker
2007	INFORMS Annual Meeting, Seattle, WA, USA	Speaker
2008	International Conference on Industrial Logistics, Tel Aviv, Israel	Speaker, Coauthor
2009	The annual ORSIS meeting, Herzliya, Israel	Chair of the organizing committee
2009	4th Odysseus Workshop, Izmir, Turkey	Speaker

2009	CORS/INFORMS International Meeting, Toronto, Canada	Speaker
2010	7th Triennial Symposium on Transportation Analysis (TRISTAN), Tromsø, Norway	Speaker, Coauthor
2010	INFORMS annual meeting, Austin, Text, USA	Speaker
2010	Annual Conference of the Manufacturing and Service Operations Management Society (MSOM), Haifa, Israel	Session Chair, Coauthor
2011	The annual ORSIS meeting, Akko, Israel	Session Chair, Speaker
2011	INFORMS annual meeting, Charlotte, North Carolina, USA	Organizer of a track Session Chair, Speaker, Coauthor
2012	5th Odysseus Workshop, Mykonos, Greece	Speaker
2012	The annual ORSIS meeting, Ma'ale Ha'hamisha, Israel	Session Chair, Speaker
2012	1st VeRoLog Workshop, Bologna, Italy	Speaker
2012	21st International Symposium on Mathematical Programming (ISMP), Berlin, Germany	Speaker
2013	The Sixth Israeli Industrial Engineering Research Meeting, Maale Hamisha, Israel	Coauthor
2013	The annual ORSIS meeting, Beer Sheva, Israel	Session Chair, Coauthor
2013	The 26th European Conference on Operational Research, Rome, Italy	Sessions Chair, Speaker
2013	2nd VeRoLog Workshop, Southampton, UK	Coauthor
2013	Joint 2nd Workshop of the Turkish and Israeli Operations Research Societies (WITOR), Tel Aviv, Israel	Coauthor, Participant
2014	The annual ORSIS meeting, Tel Aviv, Israel	Session Chair, Speaker, Coauthor

2014	3rd VeRoLog Workshop, Oslo, Norway	Speaker, Coauthor
2015	The annual ORSIS meeting, Haifa, Israel	Session Chair, Speaker, Coauthor
2015	4th VeRoLog Workshop	Speaker, Coauthor, Session Chair
2016	The annual ORSIS meeting, Maale Hamisha, Israel	Speaker
2016	Route 2016 - International workshop on vehicle routing, intermodal transport and related areas, Rambouillet, France	Speaker, participation by invitation only
2016	5th VeRoLog Workshop, Nantes, France	Speaker
2017	The annual ORSIS meeting, Ramat Gan, Israel	Session chair, speaker and a coauthor of four presentations
2017	POMS international conference, Tel Aviv, Israel	Speaker, Coauthor
2017	6th VeRoLog Workshop, Amsterdam	Speaker
2017	hEART 2017: 6th Symposium of the European Association for Research in Transportation, Haifa, Israel	Participant, Reviewer, Coauthor
2017	*Smart Cities, Potentials, Prospects and Discontent,* Israel, Tel Aviv	Speaker
2017	*Workshop on Smart Logistics - A Revolution in the Making*, Tel Aviv	Co-organizer, Speaker
2017	University of Denver, Israel conference: Impact of Driverless Mobility	Panel speaker
2018	15th *CEMS* Research *Seminar on supply chain management,* Austria, Riezlern	Speaker, Coauthor
2018	*Workshop on Optimization and Discrete Geometry: Theory and Practice*, Tel Aviv	Co-organizer
2018	The annual ORSIS meeting, Beer Sheva, Israel	Stream organizer, Coauthor, Session Chair

2018	Route 2018 - International workshop on vehicle routing, Copenhagen, Denmark	Speaker, participation by invitation only
2018	7th Odysseus Workshop, Cagliari, Italy	Coauthor of two papers
2019	SAE Connected and automated vehicle conference, Ramat Gan, Israel	Speaker
2019	16th *CEMS* Research *Seminar on supply chain management*, Riezlern, Austria	Speaker, Session Chair
2019	The annual ORSIS meeting, Shfayim, Israel	Member of the organizing committee
2019	INFORMS TSL Society Workshop, Vienna, Austria	Speaker, Member of the scientific committee
2020	17th *CEMS* Research *Seminar on supply chain management*, Riezlern, Austria	Speaker, Session Chair
2021	18th *CEMS* Research *Seminar on supply chain management*, Online event	Speaker
2021	The annual ORSIS meeting, Technion, Haifa	Speaker, Session Chair
2021	The 1st ISTRC21 Annual Conference, Tel Aviv	Member of the organizing committee
2022	19th *CEMS* Research *Seminar on supply chain management*, Online event	Panel leader
2022	Route 2022 - International workshop on vehicle routing, Copenhagen, Denmark	Speaker, participation by invitation only
2022	The annual ORSIS meeting, Jerusalem	Speaker, Session Chair
2022	VeRoLog 2022 workshop, Hamburg	
2023	20th CEMS Research Seminar on supply chain management, Riezlern, Austria	Speaker

2023	The annual ORSIS meeting, Tel Aviv	Co-author, Session Chair
2023	Jon-Shmuel Halfway to Twelfty, École des Ponts, Marne-la-Vallée, France (a workshop on combinatorial optimization)	Speaker (by invitation only)
2023	INFORMS Transportation and Logistics Society Second Triennial Conference, Chicago, Illinoi	Co author

Academic and professional awards

Internal Grants (at TAU)

Year	Foundation	Title	Sum NIS (My Share)	Co-researchers	P.I.
2009	Tel Aviv University	Vice President for Research and Development Grant	14,000 (7,000)	Michal Tzur	CO-PI
2010	Tel Aviv University	Vice President for Research and Development Grant	14,000 (7,000)	Michal Tzur	CO-PI
2019-2022	The Koret Foundation	Effective and Equitable Technology in the Digital Era	534,982 (267,491)	Michal Tzur	CO-PI
2020-2022	The AI and data science center	From Data to Algorithms and Back: Making Urban Public Transport Adaptive	300,000 (150,000)	Itzhak Benenson	CO-PI

External Grants

Year	Foundation	Title	Sum NIS (My Share)	Co-researchers	P.I.
2011-2014	ISF	Bicycle sharing	304,200 (152,100)	Michal Tzur	CO-PI
2013-2016	Ministry of Science & Technology	User-oriented security: a multi-disciplinary approach	868,883 (96,015)	Irad Ben-Gal, Joachim Meyer, and Eran Toch	CO-PI
2014-2015	The center for innovation in transportation in the prime minister office	Crowdsourcing of package delivery	100,000 (50,000)	Michal Tzur	CO-PI
2015-2018	Ministry of Science & Technology	Design and operation of a crowdsourced package delivery system	1,150,920 (331,200)	Eran Toch and Michal Tzur	CO-PI
2016-2019	The center for innovation in transportation in the prime minister office	A Demand Responsive Feeder Service for Train Stations	260,000 (30,000)	Hillel Bar-Gera and Gadi Rabinowitz	CO-PI
2017-2020	ISF	Time-dependent and stochastic field service routing and scheduling	375,000	-	PI
2020-2024	ISF	Physical internet design and operation for dynamic delivery of parcels	516,000 (258,000)	Michal Tzur	CO-PI

2021-2023	ISTRC	Dynamic capacity management for sustainable public transportation service	299,000 (180,000)	Yuval Hadas	PI

Scholarships

1. A Scholarship for Excellence at the Technion 1999-2003.

2. A scholarship for excellent Ph.D. students from the "National Committee for Academic Planning and Budgeting (VATAT)", 2001-2003.

Prizes

1. The 2002 Mitchner Award in Quality Sciences and Quality Management (with Michal Penn), 2nd Prize. The prize is awarded at the Technion for a paper on the subject of Quality Control. The title of the winning paper is "Solving the Quality Control Station Configuration Problem Using Fluid Approximation".

2. The winner of the 2010 INFORMS Railway Application Section (RAS) Problem Solving Competition (with Mor Kaspi), 1st Prize. The prize was awarded at the RAS business meeting during the 2010 INFORMS annual meeting in Austin, Texas.

3. The winner of the 2017 ORSIS – Click software challenge in the general category. The prize was awarded in the 2017 ORSIS meeting, in Ramat Gan.

Membership in Professional Societies

2000-   ORSIS – Operations Research Society of Israel

2004-   INFORMS

2012-   VeRoLog, Working Group on Vehicle Routing and Logistics Optimization within EURO, the Association of the European Operational Research Societies

Postdoctoral Students

2021-2023   Dr. Claudio Szwarcfiter (co-hosted with Yossi Bukchin)
              Design and operation of physical internet two-sided platform for full track
              load transportation

Past Doctoral Students

2008-2016   Dr. Iris Forma (co-advised with Michal Tzur)
              "Decomposition Methods for Solving Transportation Problems in Supply
              Chains and in Bike-Sharing Systems"
              Graduated in 2017

2011-2016   Dr. Mor Kaspi (co-advised with Michal Tzur)
              "Bike-sharing systems: parking reservation policies and maintenance
              operations."
              *Awarded the 2017 best doctoral dissertation prize of VeRoLog (Working Group
              on Vehicle Routing and Logistics Optimization within EURO, the Association
              of the European Operational Research Societies)*

2013-2021   Dr. Yifat Douek Pinkovich (co-advised with Irad Ben-Gal)
              "Optimal configuration of sensors"

2016-2021   Dr. Ido Orenshtein
              "Delivery Processes Using Automated Parcel Lockers"

2016-2023   Edison Avraham
              "Time-dependent and stochastic field service routing and scheduling"

Current Doctoral Students

2022-   Gabriel Deza (co-advised with Michal Tzur)
              "Optimal operation of a hyperconnected network for parcel delivery"
              (tentative)

Past M.Sc. Students with a thesis

2008-2010   Shikma Aharonov (co-advised with Yossi Bukchin)
"Integrated Assembly Line Balancing and Inspection Allocation Problem in an Online Rework Environment"

2008-2010   Dr. Mor Kaspi
"Service Oriented Train Timetabling."

2010-2012   Ofer Kolka
"Dynamic Management of Stock Levels in a Bike Sharing System"

2009-2013   Zohar Postelnick (co-advised with Irad-Ben Gal)
"Optimal Design of Web Sites"

2011-2014   Dana Pessach (co-advised with Michal Tzur)
"Dynamic repositioning in Bike-Sharing System"

2011-2014   Gil Einy
"The Stochastic Battery Switching Station Scheduling Problem"

2012-2015   Edison Avraham (co-advised with Evgeni Khmelnitsky)
"The Decentralized Field Service Routing Problem"
Awarded the second prize in the 2017 student paper competition of the Israeli IE organization

2013-2016   Sharon Datner (co-advised with Michal Tzur)
"Setting Inventory Levels in a Bike Sharing Network"

2013-2016   Yuval Elbar
"The Mixed Transit Fleet Bus Scheduling Problem"

2019-2022   Shir Tavor
"Anticipatory rebalancing of RoboTaxi systems"

Current M.Sc. Students with a thesis

2021-   Shachar Eizen (co-advised with Michal Tzur)
"Dynamic routing of parcel in physical internet" (tentative)

| 2021- | Hila Nitshel (co-advised with Irad Ben-Gal) |
| | Optimization methods for feature selection |

M.Sc. Students with a project

| 2008 | Yaara Schribman |
| | "Optimal Configuration of Spare Parts Supply Network" |

| 2010 | Alon Solomon |
| | "Assembly line balancing problem with capability constraints" |

2014	Hila Ben-David Galili (co-advised with Mor Kaspi, a Ph.D. student at that time)
	"Reservation policies in shared mobility system – a simulation study"
2020	Kfir Siton
	"Puzzle based storage systems with AGVs"

| 2022 | Sapir Amsalem (co-advisee with Ilit Oppenheim) |
| | Acceptance of fixed line flexible capacity bus service |

Peer-reviewed papers

Citations (Web of Science) 1405 times, h-index: 17, i-10 index 21, updated: 11/6/2023
Citations (Google Scholar) 2708 times, h-index: 21, i-10 index 28, updated: 18/6/2022

Published and accepted

1. Gad Alon, Dirk P. Kroese, <u>Tal Raviv</u> and Reuven Rubinstein,
   "Application of the Cross-Entropy Method to the Buffer Allocation Problem in a Simulation-Based Environment",
   Annals of Operations Research, 134 (2005) 137-151
   Impact Factor (2015): 0.525 (1.406), currently Q1 (Management Science and Operations Research, Decision Science (miscellaneous))

2. Wade D. Cook, Boaz Golany, Moshe Kress, Michal Penn and <u>Tal Raviv</u>,
   "Optimal Allocation of Proposals to Reviewers to Facilitate Effective Ranking",
   Management Science, 51 (2005) 655-661

Impact Factor (2015): 1.669 (2.741), Q1 (Management Science and Operations Research, Strategy and Management)

3. Wade D. Cook, Boaz Golany, Michal Penn and <u>Tal Raviv</u>,
    "Creating a Consensus Ranking of Proposals from Reviewers' Partial Ordinal Rankings",
    Computers & Operations Research, 34 (2006) 954-965
    2020 Impact Factor 4.008, Q1 (Management Science and Operations Research, Modeling and Simulation, Computer Science (miscellaneous))

4. Michal Penn and <u>Tal Raviv</u>,
    "Optimizing the Quality Control Station Configuration",
    Naval Research Logistics, 54 (2007) 301-314.
    2020 Impact Factor: 1.494, Q1 (Management Science and Operations Research, Modeling and Simulation)

5. Michal Penn and <u>Tal Raviv</u>,
    "A Polynomial Time Algorithm for Solving a Quality Control Station Configuration Problem",
    Discrete Applied Mathematics, 156 (2008) 412-419.
    2015 Impact Factor: 0.783 (0.722), Q2

6. Michal Penn and <u>Tal Raviv</u>,
    "An Algorithm for the Maximum Revenue Jobshop Problem",
    European Journal of Operational Research, 193 (2009) 437-450.
    2020 Impact Factor 5.334, Q1 (Management Science and Operations Research, Information Systems and Management, Modeling and Simulation)

7. Wade D. Cook, <u>Tal Raviv</u>, and Alan J. Richardson,
    "Aggregating Incomplete Lists of Journal Rankings: An Application to Academic Accounting Journals",
    Accounting Perspectives, 9 (2010) 217-235,
    2020 Impact Factor: 0.64, Q3 (Accounting, Finance)

8. Danny Granot, Frieda Granot, and <u>Tal Raviv</u>,
    "On Competitive Location in a Network",
    European Journal of Operational Research, 205 (2010) 301–312
    2020 Impact Factor 5.334, Q1 (Management Science and Operations Research, Information Systems and Management, Modeling and Simulation)

9. <u>Tal Raviv</u> and Mor Kaspi*,
   "The Locomotive Fleet Fueling Problem",
   Operations Research Letters, 40 (2012) 39-45
   2020 Impact Factor: 1.154, Q1 (Industrial and Manufacturing Engineering)
   A preliminary version of this paper won first prize in 2010 INFORMS RAS Problem Solving Competition

10. <u>Tal Raviv</u>,
    "The Battery Switching Station Scheduling Problem",
    Operations Research Letters 40 (2012) 546–550,
    2020 Impact Factor: 1.154, Q1 (Industrial and Manufacturing Engineering)

11. <u>Tal Raviv</u>,
    "An Efficient Algorithm for Maximizing the Expected Profit from a Serial Production Line with Inspection Stations and Rework",
    OR-Spectrum 35 (2013)*,* 609-638
    Impact Factor: 1.41, Q1 (Management Science and Operations Research)

12. <u>Tal Raviv</u> and O. Kolka*,
    "Optimal Inventory Management of a Bike-Sharing Station",
    IIE Transactions 45 (2013), 1077-1093
    2015 Impact Factor: 1.65, Q1 (Industrial and Manufacturing Engineering)

13. Mor Kaspi* and <u>Tal Raviv</u>,
    "Service Oriented Train Timetabling",
    Transportation Science, 47 (2013), 295-311,
    2015 Impact Factor: 3.295, Q1 (Transportation, Civil and Structural Engineering)

14. <u>Tal Raviv</u>, Michal Tzur, and Iris Forma*,
    "Static Repositioning in a Bike-Sharing System : Models and Solution Approaches",
    EURO Journal of Transportation and Logistics 2(2013), 187-229
    The journal was not ranked yet when the paper was accepted it is currently Q1 (Management Science and Operations Research, Transportation, Modeling and Simulation)
    This paper is the most cited paper in the history of the journal.

15. Nicole Adler, A. Shalom Hakkert, Johnathan Kornbluth, <u>Tal Raviv</u>, Mali Sher*,
    "Location-allocation models for traffic police patrol vehicles on an interurban network",
    Annals of Operation Research 221 (2014), 9-31,
    2015 Impact Factor: 1.103 (1.406), Q1 (Management Science and Operations Research, Decision Science (miscellaneous))

16. Michael Masin and <u>Tal Raviv</u>,
    "Linear Programming-Based Algorithms for the Minimum Makespan High Multiplicity Jobshop Problem"
    Journal of Scheduling, 17:4 (2014), 321-338
    Impact Factor (2015): 1.028 (1.023), Q1

17. Mor Kaspi*, <u>Tal Raviv</u>, Michal Tzur,
    "Parking reservation policies in one-way vehicle sharing systems", *Transportation Research Part B: Methodological*, 62 (2014), 35-50
    Impact Factor (2015): 2.952 (3.769), Q1 (Management Science and Operations Research, Transportation, Civil and Structural Engineering)

18. Nicole Adler, A. Shalom Hakkert, <u>Tal Raviv</u>, and M. Sher*,
    "The traffic police location and schedule assignment problem",
    Journal of Multi-Criteria Decision Analysis 21 (2014), 315–333
    Impact Factor (2015): 0.71 (1.14), Q2

19. Iris Forma*, <u>Tal Raviv</u>, Michal Tzur
    A 3-Step Math Heuristic for the Static Repositioning Problem in Bike-Sharing Systems,
    Transportation Research Part B, 71 (2015), 230-247
    2015 Impact Factor: 3.769, Q1 (Management Science and Operations Research, Transportation, Civil and Structural Engineering)

20. Mor Kaspi*, <u>Tal Raviv</u>, Michal Tzur,
    Detection of Unusable Bicycles in Bike-Sharing Systems
    Omega, 65 (2016), 10-16
    2014 Impact Factor: 4.376, Q1 (Management Science and Operations Research, Strategy and Management, Information Systems and Management)

21. Mor Kaspi*, <u>Tal Raviv</u>, Michal Tzur, Hila Galili*
    Regulating vehicle sharing systems through parking reservation policies: Analysis and performance,
    European Journal of Operational Research, 251:33 (2016), 969–987
    2020 Impact Factor 5.334, Q1 (Management Science and Operations Research, Information Systems and Management, Modeling and Simulation)

22. Zohar Postelnicu*, <u>Tal Raviv</u>, Irad Ben-Gal, Improving Websites' Quality of Service by Shortening their Browsing Expected Path Length
    Quality and Reliability Engineering International, 32 (2016), 2017-2031
    2015 Impact Factor: 1.457, Q1

23. Mor Kaspi*, <u>Tal Raviv</u>, Michal Tzur,
Bike Sharing Systems: User Dissatisfaction in the Presence of Unusable Bicycles, *IISE Transactions*, 49:2 (2017), 144-158
2020 Impact Factor: 2.681, Q1 ((Industrial and Manufacturing Engineering)

24. Edison Avraham*, <u>Tal Raviv</u>, E. Khmelnitsky,
The Decentralized Field Service Routing Problem,
Transportation Research Part B, 104 (2017), 290-316
2016 Impact Factor: 3.769, Q1 (Management Science and Operations Research, Transportation, Civil and Structural Engineering)

25. Yossi Bukchin, <u>Tal Raviv</u>,
"Constraint Programming for Solving Various Assembly Line Balancing Problems",
OMEGA, 78 (2018), 57-68
2016 Impact factor: 4.029, Q1 (Management Science and Operations Research, Strategy and Management, Information Systems and Management)

26. Sharon Datner*, <u>Tal Raviv</u>, Michal Tzur, and Daniel Chemla*
"Setting Inventory Levels in a Bike Sharing Network", *Transportation Science*, 53 (2019), 62-76
2016 Impact Factor: 3.275, Q1 (Transportation, Civil and Structural Engineering)

27. Ido Orenstein*, <u>Tal Raviv</u>, Elad Sadan*
"Delivery Process with Flexibility Using Automated Parcel Locker",
 EURO Journal of transportation and logistics (2019) 8:683-711
2020 impact factor: 1.739, Q1 (Management Science and Operations Research, Transportation, Modeling and Simulation)

28. Edison Avraham*, <u>Tal Raviv</u>
"The data-driven time-dependent traveling salesperson problem",
Transportation Research Part B (2020) 134:25-40,
2019 Impact Factor: 4.796, Q1 (Management Science and Operations Research, Transportation, Civil and Structural Engineering)

29. Yossi Bukchin, <u>Tal Raviv</u>, Ilya Zaides
"The Consecutive Multiprocessor Job Scheduling Problem", *European Journal of Operational Research* (2020) 427-438,
2019 Impact Factor 4.213, Q1 (Management Science and Operations Research, Information Systems and Management, Modeling and Simulation)

30. Yifat Douek-Pinkovich*, Irad Ben-Gal, <u>Tal Raviv</u>,
    "The generalized test collection problem,"
    TOP (2021) 372–386
    2019 Impact Factor: 1.452, Q2 (Management Science and Operations Research, Modeling and Simulation)

31. Omer Dumbinsky, Joachim Mayer, <u>Tal Raviv</u>,
    "Alerting about possible risks vs. blocking risky choices: A quantitative model and its empirical evaluation,"
    Computers & Security (2020), 101944
    2019 Impact factor 3.579, Q1 (Computer Science (miscellaneous))

32. Michal Penn, <u>Tal Raviv</u>
    "Complexity and algorithms for min cost and max profit scheduling under time-of-use electricity tariffs," *Journal of Scheduling* (2021), (24)1, 83-102
    2020 Impact Factor 1.802, Q1 (Engineering (miscellaneous))

33. Edison Avraham*, <u>Tal Raviv</u>
    "The steady-state mobile personnel booking problem,"
    Transportation Research Part B. 154 (2021), 266-288
    2020 Impact Factor: 5.596, Q1 (Management Science and Operations Research, Transportation, Civil and Structural Engineering)

34. Lu Xing, <u>Tal Raviv</u>, Lina Sela
    "Sensor Placement for Robust Burst Identification in Water Systems: Balancing Modeling Accuracy, Parsimony, and Uncertainties,"
    Advanced Engineering Informatics, 51 (2022), 101484
    2020 Impact factor 5.603, Q1 (Artificial intelligence, information systems)

35. Yifat Douek-Pinkovich*, Irad Ben-Gal, <u>Tal Raviv</u>
    "The Stochastic Test Collection Problem: Models, Exact, and Heuristic Solution Approaches", *European Journal of Operational Research, 299 (2022), 945-959*
    2020 Impact factor: 5.334, Q1 (Management Science and Operations Research, Information Systems and Management, Modeling and Simulation)

36. Mor Kaspi, <u>Tal Raviv</u>, Marlin Ulmer
    "Directions for future research on urban mobility and city logistics"
    Networks, 79:3 (2022), 253-263

2020 Impact factor: 5.059, Q1 (Computer Networks and Communications, Information Systems, Software)

37. Ido Orenstein*, Tal Raviv
"Parcel Delivery Using the Hyperconnected Service Network,"
Transportation Research Part E, 161(2022), 102716
2021 Impact factor: 10.047, Q1 (Transportation, Management Science and Operations Research)

38. Tal Raviv, Yossi Bukchin, René de Koster
"Optimal retrieval in puzzle-based storage systems using automated mobile robots",
Transportation Science 57:2 (2023), 424-443,
2020 Impact factor: 4.117, Q1 (Transportation, Civil and structural engineering)

39. Yossi Bukchin, Tal Raviv
"A comprehensive toolbox for load retrieval in puzzle-based storage systems with simultaneous movements", *Transportation Research Part B,* 166 (2022) 348-373
2021 impact factor: 7.632, Q1 (Transportation, Civil and Structural Engineering, Management Science and Operations Research)

40. Shir Tavor*, Tal Raviv
"Anticipatory rebalancing of RoboTaxi systems",
Transportation Research Part C, 153(2023) 104196
2022 impact factor 9.022, Q1 (Transportation, Management Science and Operations Research, Computer Science Applications, Civil and structural engineering)

41. Edison Avraham *, Tal Raviv
"The data-driven time-dependent orienteering problem with soft time windows",
EURO journal of transportation and logistics, 12(2023) 100112
2022 Impact Factor 1.5666, Q1 (Transportation, Management Science and Operations Research, Modeling and Simulation)

42. Tal Raviv
"The service points' location and capacity problem", Accepted in Transportation Research Part E (29/6/2023)
2021 Impact factor: 10.047, Q1 (Transportation, Management Science and Operations Research)

Papers presented at scientific meetings published as proceedings

1. Gad Alon, <u>Tal Raviv</u>, Reuven Rubinstein,
   Solving the Buffer Allocation Problem Using the Cross Entropy Method, Invited Talk
   The 3ʳᵈ Aegean International Conference on Design and Analysis of Manufacturing Systems, Tinos, Greece, May 2001

2. Michal Penn, <u>Tal Raviv</u>,
   Designing a Quality Control System in a Serial Production Line
   30th International Conference on Computers and Industrial Engineering, Greece, July 2002

3. Michal Penn, <u>Tal Raviv</u>,
   On the infinite horizon Maximum Profit Job Shop Problem
   The Third Israeli Industrial Engineering Research Meeting, Tel Aviv, March 2007, 15 pages

4. Iris Forma* and Michal Tzur, and <u>Tal Raviv</u>
   A Model for Planning of Production, Inventory and Combined Routing of Delivery and Pick-Up
   International Conference on Industrial Logistics, Tel Aviv, March 2008

5. Shikma Aharonov*, Yossi Bukchin, and <u>Tal Raviv</u>
   Integrated Assembly Line Balancing and Inspection Allocation Problem in an Online Rework Environment
   International Conference on Industrial Logistics, Tel Aviv, March 2008

6. Iris Forma*, Michal Tzur, <u>Tal Raviv</u>
   Functional Decompositions for a Production and Distribution System
   INCOM '09, Moscow, May 2009

7. Iris Forma* and Michal Tzur, and <u>Tal Raviv</u>
   Repositioning in a Bike-Sharing System
   4ᵗʰ *Odysseus Workshop*, Izmir, Turkey, May 2009

8. Mor Kaspi* and <u>Tal Raviv</u>,
   Service Oriented Train Timetabling

7th Triennial Symposium on Transportation Analysis (TRISTAN), Tromsø, Norway, June 2010

9. Iris Forma*, <u>Tal Raviv</u>, and Michal Tzur,
    The Static Repositioning Problem in a Bike-Sharing System.
    7th Triennial Symposium on Transportation Analysis (TRISTAN), Tromsø, Norway, June 2010

10. Mor Kaspi* and <u>Tal Raviv</u>,
    Service Oriented Train Timetabling
    Annual Conference of the Manufacturing and Service Operations Management Society (MSOM), Haifa, Israel, June 2010

11. Mor Kaspi* and <u>Tal Raviv</u>,
    The locomotive fleet fueling problem
    5th *Odysseus Workshop*, Mykonos, Greece, May 2012

12. Hillel Bar-Gera, Shalomo Beycheck*, Gadi Rabinowitz and <u>Tal Raviv</u>,
    Share a ride to the train station using a demand-responsive feeder service
    6th hEART symposium, Haifa, Israel, September 2017 (acceptance rate 66%)

13. Edison Avraham* and <u>Tal Raviv</u>.
    The stochastic and time-dependent single vehicle field service personnel routing and scheduling problem
    7th *Odysseus Workshop*, Cagliari, Italy, June 2018

14. Eyal Tenzer* and <u>Tal Raviv</u>.
    Crowd-shipping of small parcels in a physical internet
    7th *Odysseus Workshop*, Cagliari, Italy, June 2018

15. Ido Orenstein* and <u>Tal Raviv</u>.
    Reliable Parcel Routing Policy in a Physical Internet
    Tristan X - The Tenth Triennial Symposium on Transportation Analysis, Hamilton, Australia, June 2019

16. Oksana Pecherski*, <u>Tal Raviv</u>, Hillel Bar-Gera,
    Partially Flexible Demand Responsive Transit (DRT): Feeder Service to Railways,
    The Transportation Research Board (TRB) 102nd Annual Meeting,
    Washington DC, USA, January 2023

17. Yossi Bukchin, <u>Tal Raviv</u>
An efficient MILP formulation for the parallel-load retrieval in puzzle-based
storage systems with simultaneous load movements
International Material Handling Research Colloquium (IMHRC 2023)
Dresden, Saxony, Germany, June 2023

18. Shchar Eizen*, Tzur Michal, , Tal Raviv
Dynamic parcel routing in hyper-connected networks
INFORMS Transportation and Logistics Society Second Triennial Conference
Chicago, Illinois, USA, July 2023

Abstracts of presentations in scientific meetings

1. Michal Penn, Tal Raviv,
Approximation Procedure for the High Multiplicity Job Shop Problem
The annual ORSIS meeting, Zikhron Yakov, Israel*,* 2001.

2. Michal Penn, Tal Raviv,
Optimal Configuration of Quality Control Stations in a serial Production Line – A Fluid
Approach Method
International Symposium on Combinatorial Optimization, Paris, France*,* April   2002.

3. Michal Penn, Tal Raviv,
Solving the Infinite Planning Horizon Vehicle Routing Problem
INFORMS Annual Meeting, San Jose*,* November 2002

4. Michal Penn, Tal Raviv,
Solving the Infinite Planning Horizon Vehicle Routing Problem
The 20th European Summer Institute on supply chain management, Grainou, Germany,
August 2003

5. Michal Penn, Tal Raviv,
Solving the Shift Staffing Problem Using a Columns Generation Technique
The annual ORSIS meeting, Ma'ale Ha'hamisha, Israel*,* May 2003

6. Michal Penn, Tal Raviv,
Solving the Long Run Maximum Profit Job Shop Problem
INFORMS Annual Meeting, Atlanta, October 2003

7. Michal Penn, Tal Raviv,

A Polynomial Time Algorithm for Solving a Quality Control Station Configuration Problem
4th Haifa Workshop on Interdisciplinary Applications of Graph Theory and Algorithms, April, 2004.

8. Wade Cook, Boaz Golany, Moshe Kress, Michal Penn, Tal Raviv
   Optimal Allocation of Proposals to Reviewers to Facilitate Effective Ranking
   The annual ORSIS meeting, Ashkelon, Israel*, May 2004

9. Tal Raviv
   Application of CE for Management of Multi-Echelon Supply Network,
   INFORMS Annual Meeting, Denver*, October 2004, sponsored session

10. Daniel Granot, Frieda Granot, Tal Raviv
    On Stackelberg-Hotelling Game
    The annual ORSIS meeting, Caesarea, Israel*, May 2005

11. *D. Granot, F. Granot, T.Raviv*
    On Stackelberg-Hotelling Game*, sponsored session
    INFORMS Annual Meeting, San Francisco*, November 2005,

12. D. Granot, F. Granot, T.Raviv
    On Competitive Location in Network, invited talk
    CORS / Optimization Days Joint Conference, Montreal*, May 2006

13. S. Aharonov* and J. Bukchin*, Tal Raviv*
    The annual ORSIS meeting, Ma'ale Ha'hamisha, Israel, May 2007
    Assembly Line Balancing with Inline Rework

14. M. Masin, Tal Raviv,
    LP Based Dispatching Rule for Jobshop
    INFORMS Annual Meeting, Seattle*, November 2007

15. O. Kolka* and Tal Raviv, Optimal Stock Level in Stations of a Bike-Sharing System,
    CORS/INFORMS International Meeting, Toronto, Canada, July 2009

16. Mor Kaspi* and Tal Raviv
    The Locomotives Fueling Problem
    A presentation in RAS competition finalist session

INFORMS annual meeting, Austin, Texas, November 2010

17. Tal Raviv, Edison Avraham*, O. Kolka*,
    The Right Size of Bike Rental Stations
    INFORMS annual meeting, Charlotte, North Carolina, November 2011

18. Mor Kaspi* and Tal Raviv
    The Locomotives Fleet Fueling Problem
    The annual ORSIS meeting, Akko, Israel, May 2011

19. Michal Tzur, D. Pesach*, Tal Raviv,
    Dynamic Repositioning in a Bike-Sharing System
    INFORMS annual meeting, Charlotte, North Carolina, November 2011

20. Michal Tzur, D. Pesach*, Tal Raviv,
    Repositioning in a Bike-Sharing System
    The annual ORSIS meeting, Maale Ha'amisha, Israel, June 2012

21. Michal Tzur, D. Pesach*, Tal Raviv,
    Dynamic Repositioning in a Bike-Sharing System
    VeRoLog Conference (EURO Workgroup on Vehicle Routing and Logistics Optimization), Bologna, Italy, June 2012,

22. Tal Raviv
    The Battery Switching Station Scheduling Problem
    21st International Symposium on Mathematical Programming, Berlin, Germany, August 2012

23. Parking Reservations in Shared Mobility Systems
    Mor Kaspi*, Tal Raviv, and Michal Tzur
    Joint 2nd Workshop of the Turkish and Israeli Operations Research Societies
    Tel Aviv, October 2013

24. Partial Parking Reservation Policies in One-Way Vehicle Sharing Systems
    Mor Kaspi*, Tal Raviv, and Michal Tzur
    3rd VeRoLog Conference, Oslo, Norway, June 2014,

25. Tal Raviv, and Tom Cherchy*
    The minimum complete cycle problem
    VeRoLog Conference, Oslo, Norway, June 2014,

26. Tal Raviv, and Yuval Elbar*
    Optimal scheduling of mixed bus fleet
    VeRoLog Conference, Vienne, Austria, June 2015,

27. Mor Kaspi*, Tal Raviv, and Michal Tzur
    Detection and Collection of Broken Bicycles in Bike-Sharing Systems
    VeRoLog Conference, Vienne, Austria, June 2015,

28. Sharon Datner*, Tal Raviv, and Michal Tzur
    Setting Inventory Levels in a Bike Sharing Network
    VeRoLog Conference, Nantes, France, June 2016,

29. Yuval Elbar* and Tal Raviv
    The Mixed Transit Fleet Bus Scheduling Problem
    Route2016 workshop, Rambouillet, France

30. Avraham Edison* and Tal Raviv
    The Stochastic Time-Dependent Orienteering Problem with Soft Time Windows
    The annual ORSIS meeting, Ramat Gan, Israel, May 2017

31. Avraham Edison*, E. Khmelnitsky and Tal Raviv
    The decentralized field service routing problem
    The POMS international conference, Israel, June 2017

32. Shlomo Beychok, Hillel Bar Gera, Tal Raviv, Gad Rabinowitz
    Share A Ride to the Train Station Using a Demand-Responsive Feeder Service
    - *The POMS international conference*, Israel, June 2017
    - *hEART: 6th Symposium of the European Association for Research in Transportation*, Haifa, Israel, September 2017

33. Yifat Douek Pinkovich*, Tal Raviv, Irad Ben-Gal
    A Combinatorial Approach for Optimal Sensor Selection
    The annual ORSIS meeting, Ramat Gan, Israel, May 2017

34. Eyal Tenzer*, Tal Raviv
    Small Parcel Routing in a Crowdsourced Physical Internet
    - *The POMS international conference*, Israel, June 2017
    - *VeRoLog Conference,* The Netherlands, Amsterdam, July 2017

35. Edison Avraham*, Eugene Khmelnitsky, Tal Raviv
The Decentralized Field Service Routing Problem
The POMS international conference, Israel, June 2017

36. Tal Raviv
New methods for small parcel delivery - a survey lecture
- *Smart Cities, Potentials, Prospects and Discontent,* Israel, Tel Aviv, 2017
- *Workshop on smart logistics, a revolution in the making,* Tel Aviv, 2017
- 15th *CEMS* Research *Seminar on supply chain management,* Austria, Riezlern, January 2018

37. Yossi Bukchin and Tal Raviv
Constraint Programming for Solving Various Assembly Line Balancing Problems.
15th *CEMS* Research *Seminar on supply chain management,* Austria, Riezlern, January 2018

38. Ido Orenstein*, Tal Raviv, Elad Sadan*
Delivery Process with Flexibility Using Automated Parcel Lockers
- ORSIS meeting, Beer Sheva, 2018
- Euro annual meeting, Valencia, 2018

39. Edison Avraham* and Tal Raviv,
Time-dependent and stochastic field service routing and scheduling
International Conference on Industrial Logistics, Beer Sheva, Israel, May, 2018

40. Eyal Tezner* and Tal Raviv
Crowd-shipping of small parcels in a physical internet
Route 2018 workshop, Comwell Borupgaard, Denmark, June 2018

41. Tal Raviv, Ido Orenstein*
Reliable Parcel Routing in a Physical Internet
- 16th *CEMS* Research *Seminar on supply chain management,* Riezlern, January, Austria, 2019
- INFORMS TSL Society Workshop, Vienna, Austria, July 2019

42. Tal Raviv, Yossi Bukchin
Optimal retrieval in puzzle-based storage systems with simultaneous load and block movement
17th *CEMS* Research *Seminar on supply chain management,* Riezlern, Austria, January 2020

43. Tal Raviv, Yossi Bukchin, Rene de Koster
Optimal Retrieval from a Puzzle Based Storage System using Automated Mobile Robots
- 18th *CEMS* Research *Seminar on supply chain management,* online event, January 2021
- ORSIS meeting, Jerusalem, June 2022
- ROUTE 2022, meeting, Comwell Borupgaard, Denmark, June 2022
- Jon-Shmuel Halfway to Twelfty, Marne-la-Vallée, France , July 2023

44. Tal Raviv
The service points' location and capacity problem
20th *CEMS* Research *Seminar on supply chain management,* Riezlern, Austria, January 2022

Other Publications

1. <u>Tal Raviv</u> and Michal Tzur
Introduction to the special issue on shared mobility systems
EURO Journal of Transportation and Logistics (2016), **5**:3, 257-259
Citations: 3/5 (ISI/Google Scholar)

2. Antoine Deza, Frédéric Meunier, and <u>Tal Raviv</u>
Preface: Optimization and Discrete Geometry.
Discrete Optimization (2021), article in press

3. Mor Kaspi, <u>Tal Raviv</u>, Marlin Ulmer
Preface to the special issue of the future of city logistics.
Networks, (2022), article in press