AMIR BRUDNER
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Curriculum Vitae

Research Interests

Urban transport policy, Operations Research, Game Theory, Automated Vehicles, Machine Learning.

Academic Education

PhD, Operations Research, School of Business Administration, The Hebrew University of Jerusalem, 2022
Topic: Evaluating transportation markets through game theory.
Advisor: Professor Nicole Adler.

Master Thesis, Industrial Engineering, Ben Gurion University, 2016.
Topic of Masters Thesis: Investing in research and and teaching facilities in an academic institute - an optimal control and differential game model.
Advisor: Professor Arieh Gavious.

M.B.A., Business Administration, The Hebrew University of Jerusalem, *magna cum laude*, 2009. Finance and Accounting.

B.Sc., Industrial Engineering, The Jerusalem college of Engineering, *summa cum laude*, 2006. Information System.

Professional education

MIT Professional, Modeling and simulation of transportation networks with Prof. Moshe Ben-Akiva, MIT professional education, Massachusetts Institute of Technology, August 2017.

Academic Employment

2016-Present **Lecturer**, School of Business Administration, The Hebrew University of Jerusalem.
Courses: Operations Management, Quantitative Models (in English).

2011–2017 **Lecturer**, Department of Industrial Engineering, The Jerusalem College of Engineering.
Courses: Methods Engineering, Control and Quality Assurance.

2008–Present	**Teaching Assistant**, Department of Industrial Engineering, The Jerusalem College of Engineering. Courses: Information Systems Analysis and Planning ,Statistics, Operations Research 1 and 2, Engineering Optimization, Database Management, Internet Developing, Control and Quality Assurance, Intro to Industrial Engineering Management. **Award for Excellence in Teaching (2020,2021)**.

Professional Employment

2007–2016	**System Analysis Team Leader**, The Jerusalem College of Engineering. Establish the System Analysis division within the IT department.

List of Publications

Adler, N., Brudner, A., & Proost, S. (2021). A review of transport market modeling using game-theoretic principles. *European Journal of Operational Research*, 291(3), 808-829.

Adler, N., Brudner, A., Gallotti, R., Privitera, F., & Ramasco, J. J. (2022). Does big data help answer big questions? The case of airport catchment areas & competition. *Transportation Research Part B: Methodological*, 166, 444-467.

Submitted papers

Brudner, A., Residential parking management: a review of the literature, some practices and recommendations. *Transport Policy* (R&R).

Brudner, A., & Gavious, A. A Dynamic Model of Investment in Research and Teaching Facilities in Academic Institutions.

Selected Conference Papers and Invited Presentations

2022	"Adler, Nicole and Brudner, Amir: Creating equitable transport markets with AVs". Annual Conference of the International Transportation Economics Association (ITEA) (June 2022).
2021	"Adler, Nicole and Brudner, Amir: Creating equitable transport markets with AVs". Presented at the 2021 Institute for Operations Research and the Management Sciences (INFORMS) Annual Meeting in Anaheim, CA, USA (October 2021) and at the Operations and Research Society of Israel (ORSIS) annual meeting, Technion, Haifa, Israel (August 2021).
2019	"Brudner, Amir; Gallotti, Riccardo; Privitera, Filippo; J. Ramasco, Jose and Adler, Nicole: Big data and platform competition: The case of a multi-airport system". Presented at the Annual School and Conference of the International Transportation

Economics Association (ITEA), Paris School of Economics and at the 30th European Conference on Operational Research (EURO), Dublin, Ireland (June 2019).

2018   "Adler, Nicole and Brudner, Amir: Estimating High Speed Rail and Airport Catchment Areas". Presented at the 14th International Conference on Industrial Logistics (ICIL), Beer-Sheva, Israel (May 2018).

Academic and Professional Experience and Appointments

2018   **The Intel Big Data Initiative coordinator**, The Hebrew University of Jerusalem, School of Business Administration.

2011–2017   **Academic Supervisor for Final Projects**, Department of Industrial Engineering, The Jerusalem College of Engineering.
Supervises project in Operations Research and Information Systems.

Workshops

2017–2019   **Air Transport and Regional Development (ATARD)**.

Consultations

2021-   Ministry of Transport, **Member of the strategic national parking committee**.

2018-   **Transportation policy advisor on parking policies** to municipalities (Jerusalem, Tel Aviv, Nahariya and more) and government officials (Ministry of Transport, Ministry of Finance, Prime minister's office, Planning committees).

Professional Associations Membership

The Institute for Operations Research and the Management Sciences (INFORMS)
Transportation Science and Logistics (TSL) Society at INFORMS
Operations Research Society of Israel (ORSIS)
The Israeli Association of Transportation Research

Grants and Awards

PhD   The Hebrew University of Jerusalem, **University President's Full Scholarship of Distinction**.

The Gal-Edd foundation scientific publication award, 2021.

Best scientific presentation, The Israeli Smart Transportation Research Center (ISTRC) 2nd student conference, 2021.

The Israeli Smart Transportation Research Center (ISTRC) grant for 2020-2021. 100,000 NIS (30,000 US Dollars).

Award for **Excellence in Teaching** at Azrieli College of Engineering (2020,2021).

Masters   The Hebrew University of Jerusalem School of Business Administration, **Dean's List Award**. Graduated *magna cum laude*, with a GPA of 94.96.

Undergraduate The Jerusalem college of Engineering Department of Industrial Engineering, **Dean's List Award** in all years. **Academic Excellence Scholarship** in all years. Graduated *summa cum laude*, 1st in class year with a GPA of 95.15.