

Burak Çelik

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Academic Appointments

Assistant Professor, Özyeğin University Faculty of Business **2026–Present**
Istanbul, Türkiye

Postdoctoral Researcher, Aalto University School of Business **2024–2026**
Espoo, Finland

- Research on capacity allocation, pricing, and incentive-compatible mechanisms under asymmetric information.
- Instructor for the master's course *Operations and Supply Chain Analytics*; supervisor of master's and bachelor's theses.

Postdoctoral Researcher, University of Chinese Academy of Sciences **2023–2024**
Beijing, China

- Research on supply-chain stability and demand amplification in multi-echelon systems; co-supervision of graduate researchers.

Graduate Researcher, INRIA Lille, Nord Europe Research Center **2016–2017**
Lille, France

- Bilevel-programming models for Stackelberg security games.

Education

PhD, Industrial Engineering and Operations Management, Koç University **2018–2023**
Istanbul, Türkiye · Advisor: Prof. Barış Tan

- Dissertation: *New Product Introductions with Unique and Common Features*.

MS, Industrial Engineering, Bilkent University **2014–2016**
Ankara, Türkiye · Advisor: Prof. Mustafa Ç. Pınar

- Thesis: *Robust Decentralized Investment Games*.

BS, Industrial Engineering, Bilkent University **2009–2013**
Ankara, Türkiye

Research Interests

Scarce-capacity allocation; supply-chain coordination and contract design; pricing and revenue management; operations-marketing interfaces; analytical modelling; optimization; game theory; mechanism design.

Journal Articles

1. Çelik, B., Schwarz, J. A., and Tan, B. (2025). “Product and Price Competition with Selection of Unique and Common Features and Different Quality Levels.” **International Journal of Production Economics**, 287, 109667.
2. Çelik, B., Schwarz, J. A., and Tan, B. (2024). “New Product Introductions with Selection of Unique and Common Features in Monopoly Markets.” **Omega**, 125, 103018. **Best Paper Award, 2024.**

Working Papers

Coordination, Not First-Mover Advantage: Sequential Commitment in Competing Platform Ecosystems.
Burak Çelik and Barış Tan · Under review at *Management Science*

The Price of Priority: Efficient Rationing with Common Posted Prices.

Burak Çelik and Heikki Peura · Preparing for submission to *Production and Operations Management*

Maritime Chokepoint Disruptions in Automotive Supply Chains: A Multi-Period MILP Approach.

Lia M. Neuhierl and Burak Çelik · Preparing for submission to *Transportation Research Part E*

When Capacity Reserves Make Hidden Service Quality Credible.

Burak Çelik and Heikki Peura · In progress

Performance-Adjusted Allocation.

Burak Çelik · In progress

Grants, Honors, and Awards

Research Grant, Foundation for Economic Education	2025
Travel Grant, HSE Support Foundation	2025
Omega Best Paper Award	2024
Postdoctoral Project Researcher, TÜBİTAK-funded project	2023
Doctoral Project Researcher, EU ECSEL and TÜBİTAK-funded project	2018–2021
Full Graduate Scholarship, Bilkent University	2014–2016
Full Undergraduate Scholarship, Bilkent University	2009–2013

Teaching and Supervision

Instructor, Aalto University School of Business **Fall 2025**

- *Operations and Supply Chain Analytics* (master's level): lectures and assessment.

Thesis Supervisor, Aalto University School of Business **2024–2026**

- Supervision of master's and bachelor's theses in operations and supply-chain analytics.

Selected teaching assistance

- **Aalto University:** Revenue Management and Demand Analytics; Operations and Supply Chain Analytics.
- **Koç University:** Operations Management (MBA, four semesters); Pricing and Revenue Management; Industrial Engineering Design; Decision Analysis; Applied Statistics; Engineering Economics.
- **Bilkent University:** Financial Issues in Engineering Projects; Introduction to Financial Engineering; Modeling and Methods in Optimization; Introduction to Modeling and Optimization.

Selected Presentations

Economics and Business Economics Seminar, Aarhus University, Denmark, November 2025.

INFORMS Annual Meeting, Georgia, United States, October 2025.

University of Chinese Academy of Sciences Seminar Series, China, June 2023.

Doctoral Colloquium on Operations Research and Industrial Engineering, Türkiye, November 2021.

YAEM National Congress on Operations Research and Industrial Engineering, Türkiye, July 2021.

Software and Computing

Python; MATLAB; R; GAMS; CPLEX.

Professional Service

Ad hoc reviewer: *Omega*; *Computers & Operations Research*; *Operational Research*; *Journal of Systems Science and Complexity*.

Membership: INFORMS.