

Murat M. Tunc

Contact Information

University of Texas at Dallas
Jindal School of Management
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Education

University of Texas at Dallas - Jindal School of Management

Ph.D. in Management Science (Major: Information Systems) 2015-2020 (Expected)

- Committee Chairs: [Srinivasan Raghunathan](#), [Hüseyin Çavuşoğlu](#)

Sabancı University, Istanbul, Turkey

M.Sc. in Industrial Engineering 2013-2015

- Thesis: [Diffusion of Innovation and Collective Action in Complex Networks](#)

B.S. in Manufacturing Systems and Industrial Engineering 2008-2013

Research Interests

Topics: Online Platform's Information Strategy, Information Asymmetry in Peer-to-Peer Markets, Reward Mechanisms in Blockchain Projects

Methods: Game Theory, Econometrics, Machine Learning, Field Experiments

Applications: Online Marketplaces, Sharing Economy, Blockchain, Smart Contracts

Journal Publications

1. [Online Product Reviews: Is a Finer-Grained Rating Scheme Superior to a Coarser One?](#)
Murat M. Tunc, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
MIS Quarterly, *Conditionally Accepted*
2. [New Knowledge in Strategic Management through Visually Mining Semantic Networks](#)
Gürdal Ertek, Gül Tokdemir, Mete Sevinç, Murat M. Tunc
Information Systems Frontiers, 19(1), 165-185. 2017

Under Review

3. Two-sided Adverse Selection and Bilateral Reviews in Sharing Economy
Murat M. Tunc, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
Management Science, *Under Review*

Working Papers

4. Secrets to Survival of Blockchain Projects
Murat M. Tunc, Zhiqiang (Eric) Zheng, Hasan Çavuşoğlu
Working Paper. Extended abstract available by request

Work-in Progress

5. Assessing the Impact of Personalized Messages in Product Recommendations: Evidence from a Randomized Field Experiment
Murat M. Tunc, Hasan Çavuşoğlu, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
Current stage: Experiment Design
6. What's in Your Wallet? Impact of Earning Visibility on Future Payoffs and Free-Giving Behavior in Continuous Crowdfunding
Murat M. Tunc
Current stage: Data Analysis
7. Burn-out Effect in Multi-sided Platforms: Evidence from Music Industry
Murat M. Tunc
Current stage: Data Analysis

Conference Presentations & Proceedings

1. [Two-sided Adverse Selection and Bilateral Reviews in Sharing Economy](#)
Murat M. Tunç, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
Proceedings of the 40th International Conference on Information Systems (ICIS), December 15-18, Munich, Germany, 2019
2. [Two-sided Adverse Selection and Bilateral Reviews in Sharing Economy](#)
Murat M. Tunç, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
INFORMS Annual Meeting, Seattle, WA, October 20-23, 2019
3. [Double-sided Adverse Selection and Bilateral Reviews in Sharing Economy](#)
Murat M. Tunç, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
INFORMS 10th Annual Conference on Information Systems & Technology (CIST), Phoenix, AZ, November 3-4, 2018
4. [Double-sided Adverse Selection and Bilateral Reviews in Sharing Economy](#)
Murat M. Tunç, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
29th Workshop on Information Systems and Economics (WISE), San Francisco, CA, December 17-18, 2018
5. [Single-dimensional versus Multi-dimensional Product Ratings in Online Marketplaces](#)
Murat M. Tunç, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
Platform Strategy Research Symposium, Boston, MA, July 18, 2018
6. [Single-dimensional versus Multi-dimensional Product Ratings in Online Marketplaces for Experience Goods](#)
Murat M. Tunç, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
Proceedings of the 38th International Conference on Information Systems (ICIS), Seoul, South Korea. December 10-13, 2017
7. [Association Analysis of Supply Chain Risk and Company Sales](#)
Murat M. Tunç, Alexandru Valcov, Allan N. Zhang, Wenjing Yan, Rong Wen
Proceedings of IEEE International Conference on Big Data, pp. 3268-3277, Boston, MA, December 11-14, 2017
8. [Data Mining of Project Management Data: An Analysis of Applied Research Studies](#)
Gürdal Ertek, Murat M. Tunç, Allan N. Zhang, Ömer Tanrıku, Sobhan Asian
Proceedings of the ACM International Conference on Information Technology, pp. 35-41, Singapore, December 27-29, 2017
9. [Encapsulation and Representing the Knowledge on the Evolution of an Engineering System](#)
Gürdal Ertek, Ahmetcan Erdoğan, Volkan Patoğlu, Murat M. Tunç, Ceyso Çitak, Tuğçe Vanlı
Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE, Chicago, IL, Aug 12-15, 2012
10. [Insights into the Efficiencies of On-shore Wind Turbines: A Data-centric Analysis](#)
Gürdal Ertek, Murat M. Tunç, Ece Kurtaraner, Doğancahan Kebude
International Symposium on IEEE Innovations in Intelligent Systems and Applications (INISTA), pp. 1-7, Trabzon, Turkey, July 2-4, 2012

Book Chapters

1. [Re-Mining Association Mining Results through Visualization, Data Envelopment Analysis and Decision Trees](#)
Gürdal Ertek, Murat M. Tunç
Computational Intelligence Applications in Industrial Engineering, Ed: C. Kahraman, pp. 605-626, Springer, 2012

Teaching

University of Texas at Dallas

1. Introduction to Programming
Undergraduate course. Fundamental concepts of object-oriented programming in Java
Course Instructor. Spring 2019. Enrollment - 55. [Evaluation - 4.92 / 5.00](#).¹
2. Introduction to Programming
Course Instructor. Fall 2019. Enrollment - 57

¹Note: Evaluation is based on the question "Overall, this instructor was excellent".

Teaching	Sabanci University
	3. Simulation Undergraduate course. Principles of modeling, simulation, and analysis for discrete event systems using software package Arena Recitation Instructor. Spring 2015 4. Production and Service Systems Operations Undergraduate course. Mathematical and computer methods for planning and control in production and distribution systems Recitation Instructor. Fall 2013. Fall 2014 5. Quality Planning & Control Undergraduate course. Introduction to total quality management philosophies, design and analysis of statistical process control systems Recitation Instructor. Fall 2012
Skills	Programming: Python, R, Stata, SAS, SQL, C++, Java, MATLAB, Mathematica, CPLEX, Arena, NetLogo, Minitab, Weka, HTML, L ^A T _E X Data Science: Pandas, NumPy, Selenium, Matplotlib, Plotly Technical: Data Scraping, Cleaning, Wrangling, Mining and Visualization, Machine Learning
Industry Collaborations	Perzonalization 2018 - Present Istanbul, Turkey <ul style="list-style-type: none"> Company profile: Personalized eCommerce product recommendations on web, mobile, and emails Designing a randomized field experiment for personalized messages in product recommendations
Ad-hoc Reviewer	International Conference on Information Systems (ICIS), 2018, 2019 INFORMS Conference on Information Systems & Technology (CIST), 2019
Visiting Positions	Research Scientist June - Sep 2012 Singapore Institute of Manufacturing Technology, Singapore Planning and Operations Management <ul style="list-style-type: none"> Project: Analyzing the Relationship Between Supply Chain Risk and Company Sales Advisor: Allan N. Zhang Research Scientist June - Sep 2011 Eindhoven University of Technology, Netherlands Department of Industrial Engineering and Innovation Sciences <ul style="list-style-type: none"> Project: Modeling Multimodal Freight Transportation Networks Advisor: Tom van Woensel
Awards & Grants	Fellowships & Scholarships <ul style="list-style-type: none"> The University of Texas at Dallas, Jindal School of Management PhD Fellowship, 2017 The University of Texas at Dallas, Jindal School of Management PhD Scholarship, (Full tuition fee waiver + Stipend for 5 years), 2015 TÜBİTAK (Scientific and Technological Research Council of Turkey) Graduate Fellowship (Stipend for 2 years), 2013 Sabancı University Graduate Scholarship (Full tuition fee waiver + Stipend for 2 years), 2013 Sabancı University Honor Scholarship (Full tuition fee waiver + Stipend for 5 years), 2008 Research Internship Awards <ul style="list-style-type: none"> Singapore International Pre-Graduate Award, by Singapore Agency for Science, Technology and Research (Stipend for 3 months + Airfare allowance), 2012 Erasmus Internship Mobility Grant (Stipend for 3 months), 2011 Teaching Awards <ul style="list-style-type: none"> Sabancı University Faculty of Engineering and Natural Sciences Best Teaching Assistant Award, 2014

Awards & Grants

Case Competitions

- Winner of Nielsen Business Case Competition, 2013

Nationwide Exam Rankings

- Ranked 43rd among ~300,000 candidates in the Turkish Graduate Record Exam (ALES), 2013
- Ranked in top 0.1 percentile among ~1.5 million candidates in the Turkish University Entrance Exam (ÖSS), 2008

Selected Coursework

University of Texas at Dallas

Research Seminars

- Game Theory (PhD)
- Optimization & Mechanism Design (PhD)
- Empirical Methods (PhD)
- Knowledge Management (PhD)

Econometrics

- Applied Econometrics (PhD)
- Econometrics II (PhD)
- Special Topics in Econometrics (PhD)

Sabancı University

Operations Research

- Stochastic Processes (MS)
- Linear Programming & Extensions (MS)
- Nonlinear Programming (MS)
- Operations Mgmt. & Decision Models (MS)

Networks

- Graph Theory & Network Flows (MS)
- Analysis of Social Networks (MS)

Economics / Analytical Modeling

- Advanced Managerial Economics (PhD)
- Game Theory (PhD)
- Mechanism Design (PhD)
- Industrial Organization (PhD)

Operations Research

- Optimization (PhD)
- Advanced Statistics and Probability (PhD)
- Probability & Stochastic Processes (PhD)

Finance / Economics

- Financial Engineering
- Stochastic Models in Finance (MS)
- Investment Decision Making
- Game Theory

Data Analytics

- Data Analysis and Research in Business
- Data Visualization & Analysis

Teaching Assistantship

University of Texas at Dallas

- Network and Information Security, Fall 15
- Information Technology for Business, Fall 15, Spring 16, Summer 16
- Systems Analysis and Design (MS), Summer 16
- Healthcare Informatics (MS), Fall 18
- Object Oriented Programming, Summer 19
- Cloud Computing (MS), Spring 16
- Database Foundations (MS), Fall 16, Spring 17, Summer 19
- Information Tech. Security (MS), Spring 17
- Healthcare Analytics (MS), Fall 18
- Data Management (MS), Summer 19

Personal

Language: Fluent in English and Turkish

Interests: Playing Guitar, Basketball, Photography, Cooking, Cycling, Traveling

References

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Hasan Çavuşoğlu

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