Murat M. Tunç

Contact Information	University of Texas at Dallas Jindal School of Management JSOM 3.226	🌐 muratmtunc.github.io ✉ murat.tunc@utdallas.edu ☎ +1 (469) 664-5500

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

Under Review & Working Papers

1. Online Product Reviews: Is a Finer-Grained Rating Scheme Superior to a Coarser One?
   Murat M. Tunç, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
   MIS Quarterly, *Conditionally Accepted*

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

3. Secrets to Survival of Blockchain Projects
   Murat M. Tunç, Zhiqiang (Eric) Zheng, Hasan Çavuşoğlu
   In preparation. Extended abstract available by request

Work-in Progress

1. Assessing the Impact of Personalized Messages in Product Recommendations: Evidence from a Randomized Field Experiment
   Murat M. Tunç, Hasan Çavuşoğlu, Hüseyin Çavuşoğlu, Srinivasan Raghunathan
   Current stage: Experiment Design

2. What's in Your Wallet? Impact of Earning Visibility on Future Payoffs and Free-Giving Behavior in Continuous Crowdfunding
   Murat M. Tunç
   Current stage: Data Analysis

3. Burn-out Effect in Multi-sided Platforms: Evidence from Music Industry
   Murat M. Tunç
   Current stage: Data Analysis

Talks & Presentations

Two-sided Adverse Selection and Bilateral Reviews in Sharing Economy

1. 2019 International Conference on Information Systems (ICIS), Munich, Germany
2. 2019 INFORMS Annual Meeting, Seattle, WA
3. 2018 Workshop on Information Systems and Economics (WISE), San Francisco, CA
4. 2018 Conference on Information Systems & Technology (CIST), Phoenix, AZ

Single-dimensional versus Multi-dimensional Product Ratings in Online Marketplaces

5. 2018 Platform Strategy Symposium, Boston, MA
6. 2017 International Conference on Information Systems (ICIS), Seoul, South Korea

Publications

Journal Papers

1. New Knowledge in Strategic Management through Visually Mining Semantic Networks
   Gürdal Ertek, Gül Tokdemir, Mete Sevinç, Murat M. Tunç
   Information Systems Frontiers, 19(1), 165-185. 2017

Conference Proceedings

2. 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. 2017
3. 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, 2017
4. Data Mining of Project Management Data: An Analysis of Applied Research Studies
   Gürdal Ertek, Murat M. Tunç, Allan N. Zhang, Ömer Tanrıkulu, Sobhan Asian
   Proceedings of the ACM International Conference on Information Technology, pp. 35-41, Singapore, 2017
5. Encapsulation and Representing the Knowledge on the Evolution of an Engineering System
   Gürdal Ertek, Ahmetcan Erdoğan, Volkan Patoğlu, Murat M. Tunç, Ceysu Çitak, Tuğçe Vanlı
   Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conference, IDETC/CIE, Aug 12-15, Chicago, IL, 2012
6. Insights into the Efficiencies of On-shore Wind Turbines: A Data-centric Analysis
   Gürdal Ertek, Murat M. Tunç, Ece Kurtaraner, Doğancan Kebude
   International Symposium on IEEE Innovations in Intelligent Systems and Applications (IN-ISTA), pp. 1-7, July 2-4, Trabzon, Turkey, 2012

Book Chapters

7. 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

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

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

Skills	**Programming:** Python, R, Stata, SAS, SQL, C++, Java, MATLAB, Mathematica, CPLEX, Arena, NetLogo, Minitab, Weka, HTML, LaTeX **Data Science:** Pandas, NumPy, Selenium, Matplotlib, Plotly **Technical:** Data Scraping, Cleaning, Wrangling, Mining and Visualization, Machine Learning

Industry Collaborations

Perzonalization   2018 - Present
Istanbul, Turkey
- 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
- 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
- Project: Modeling Multimodal Freight Transportation Networks
- Advisor: Tom van Woensel

Awards & Grants

Fellowships & Scholarships
- 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
- 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
- Sabancı University Faculty of Engineering and Natural Sciences Best Teaching Assistant Award, 2014

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**

University of Texas at Dallas

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

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

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

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

Sabancı University

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

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

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

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

Srinivasan Raghunathan
Ashbel Smith Professor
Jindal School of Management
University of Texas at Dallas
✉ sraghu@utdallas.edu
☎ +1 (972) 883-4377

Hüseyin Çavuşoğlu
Full Professor
Jindal School of Management
University of Texas at Dallas
✉ huseyin@utdallas.edu
☎ +1 (972) 883-5939

Zhiqiang (Eric) Zheng
Ashbel Smith Professor
Jindal School of Management
University of Texas at Dallas
✉ ericz@utdallas.edu
☎ +1 (972) 883-5914

Hasan Çavuşoğlu
Associate Professor
Sauder School of Business
University of British Columbia
✉ cavusoglu@sauder.ubc.ca
☎ +1 (604) 822-8894