

Murat M. Tunc

Contact Information

University of Texas at Dallas
Jindal School of Management
JSOM 3.226

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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](#), [Huseyin Cavusoglu](#)

Sabanci 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, Competition, Survival of Blockchain Projects
Methods: Game Theory, Econometrics, Machine Learning, Online Experiments
Applications: Online Marketplaces, Sharing Economy, Blockchain, Smart Contracts

Working Papers

1. [Online Product Reviews: Is a Finer-Grained Rating Scheme Superior to a Coarser One?](#)
Murat M. Tunc, Huseyin Cavusoglu, Srinivasan Raghunathan
MIS Quarterly, Minor Revision
2. Two-sided Adverse Selection and Bilateral Reviews in the Sharing Economy
Murat M. Tunc, Huseyin Cavusoglu, Srinivasan Raghunathan
3. Secrets to Survival of Blockchain Projects
Murat M. Tunc, Eric Zheng

Work-in Progress

1. Assessing the Impact of Personalized Messages in Product Recommendations: Evidence from a Randomized Field Experiment
Murat M. Tunc, Hasan Cavusoglu, Huseyin Cavusoglu, Srinivasan Raghunathan
2. What's in Your Wallet? Impact of Earning Visibility on Future Payoffs and Generosity
Murat M. Tunc
3. Burn-out Effect in Multi-sided Platforms: Evidence from Music Industry
Murat M. Tunc

Talks & Presentations

Two-sided Adverse Selection and Bilateral Reviews in the 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](#)
Gurdal Ertek, Gul Tokdemir, Mete Sevinc, Murat M. Tunc
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. Tunc, Huseyin Cavusoglu, 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. Tunc, 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](#)
Gurdal Ertek, Murat M. Tunc, Allan N. Zhang, Omer Tanrikulu, 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](#)
Gurdal Ertek, Ahmetcan Erdogan, Volkan Patoglu, Murat M. Tunc, Ceysu Citak, Tugce Vanli
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](#)
Gurdal Ertek, Murat M. Tunc, Ece Kurtaraner, Dogancan 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](#)
Gurdal Ertek, Murat M. Tunc
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

Computer Skills

Python, R, Stata, SAS, SQL, C++, Java, MATLAB, Mathematica, CPLEX, Arena, NetLogo, Minitab, L^AT_EX

¹Note: Evaluation is based on question “Overall, this instructor was excellent.”

Industry Collaborations	Perzonalization 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 	2018 - Present
Referee	International Conference on Information Systems (ICIS), 2018, 2019 INFORMS Conference on Information Systems & Technology (CIST), 2019	
Visiting Positions	Research Scientist 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 	June - Sep 2012
	Research Scientist 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 	June - Sep 2011
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 Case Competitions <ul style="list-style-type: none"> Winner of Nielsen Business Case Competition, 2013 National Rankings <ul style="list-style-type: none"> 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)
- Econometrics III (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

Economics / Analytical Modeling

- Advanced Managerial Economics (PhD)
- Game Theory (PhD)
- Mechanism Design (PhD)
- Industrial Organizations (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, Travel

References

Srinivasan Raghunathan

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Eric Zheng

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Allan N. Zhang

Senior Scientist
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Tom van Woensel

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