

Curriculum Vitae

Deniz AKSEN

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**Associate Professor of Management Information Systems
Koç University**

College of Administrative Sciences and Economics (CASE)
Operations and Information Systems Group

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EDUCATION

2003 Ph.D. : Krannert Graduate School of Management, Purdue University, Indiana, USA

Dissertation Title: Logistics of the conversion from “brick-and-mortar” to “click-and-mortar” retailing model

1996 M.S. : Master of Science (Industrial Engineering)

Department of Industrial Engineering, Boğaziçi University, Istanbul, Turkey

Thesis Title: Theoretical and experimental analysis of a saddle point algorithm for linear programming.

1994 B.Sc.: Bachelor of Science (Industrial Engineering)

Department of Industrial Engineering, Boğaziçi University, Istanbul, Turkey

ACADEMIC EMPLOYMENT

- **Spring 2013 - to date**, Associate Professor of Management Information Systems, Koç University
- **Spring 2003 - Fall 2012**, Assistant Professor of Management Information Systems, Koç University
- **Fall 1998 - Fall 2002**, Graduate Instructor / Research Assistant, Purdue University
- **Fall 1997 - Summer 1998**, Graduate Teaching Assistant, Boğaziçi University
- **Fall 1994 - Summer 1996**, Graduate Teaching Assistant, Boğaziçi University

PROFESSIONAL EMPLOYMENT

- **Fall 1996 - Spring 1997**, ABAP/4 Programmer, ABB Informatics GmbH, Mannheim, Germany

SPECIAL AWARDS, HONORS AND GRANTS (in chronological order)

1. **Outstanding Teaching Award of the College of Administrative Sciences and Economics** for his continued dedication to his students and their learning. Award granted by the Koç University President Umran S. İnan on 26 April 2018.
2. **Google Online Marketing Challenge (GOMC) 2014** Finalist Team Mentor – Ranked 19th in the world (4th in the MEA region, 1st in Turkey) in the Adwords Business category among 2521 teams from 80 countries, and became one of the top 15 finalists. (Account ID: 7755870337)
3. **Google Online Marketing Challenge (GOMC) 2011** Semi-Finalist Team Mentor – Ranked in the top 100 among 3082 teams from 70 countries. (Account ID: 474-542-0366)
4. **Omega Best Reviewer Award 2013** from the Editors of Omega and the Directors of Elsevier B.V., in recognition of significant contribution to **Omega**, the International Journal of Management Science.
5. **TÜBİTAK-BİDEB 2224**: Conference Travel Grant for attending IEEM 2007 in Singapore. (Amount: US\$ 1,500)

6. **TÜBİTAK MAG 1001-107M258**: Support Program for Scientific and Technological Research Projects, Project Title: *Optimization of a System to be Developed for Collecting Used Products from the Consumers*, 2007-2009. (Amount: YTL 36,420)
7. **TÜBİTAK-BİDEB 2224**: Conference Travel Grant for attending IWDL 2006 in Brescia, Italy. (Amount: US\$ 1,000)
8. **TÜBİTAK MAG 1001-106M175**: Support Program for Scientific and Technological Research Projects, Project Title: *Workforce Planning for Call Centers*, 2006-2008. (Amount: YTL 101,114.50)
9. **KÜMPER** (Koç Üniversitesi Migros Perakendecilik Eğitim Merkezi) Project Funding Grant in October 2004. (Amount: US\$ 2,000)
10. **The Krannert Dean's Certificate of Recognition for Teaching Excellence**, Fall 2001.
11. **Purdue Research Foundation (PRF) Research Grant**, for the school year of 2000-2001.
12. **Best Senior Project Award of the Operational Research Society of Turkey** at the 16th National Conference of Operations Research and Industrial Engineering, Ankara, Turkey, 1994.

PUBLICATIONS

Journals of the Science Citation Index (SCI):

1. "An efficient variable neighborhood search with tabu shaking for a class of multi-depot vehicle routing problems," Mir Ehsan Hesam Sadati, Bülent Çatay and Deniz Aksen. **Computers & Operations Research**, **133**, Article 105269, September 2021 (doi.org/10.1016/j.cor.2021.105269).
2. "A multi-start granular skewed variable neighborhood tabu search for the roaming salesman problem," Masoud Shahmanzari and Deniz Aksen. **Applied Soft Computing**, **102**, Article 107024, April 2021 (doi.org/10.1016/j.asoc.2020.107024).
3. "Multi-period travelling politician problem: A hybrid metaheuristic solution method," Masoud Shahmanzari, Deniz Aksen and Saïd Salhi. **Journal of the Operational Research Society**, 1-36, April 2021 (*published online*) (doi.org/10.1080/01605682.2021.1895684).
4. "A trilevel r -interdiction selective multi-depot vehicle routing problem with depot protection," Mir Ehsan Hesam Sadati, Deniz Aksen and Necati Aras. **Computers & Operations Research**, **123**, Article 104996, November 2020 ([doi:10.1016/j.cor.2020.104996](https://doi.org/10.1016/j.cor.2020.104996)).
5. "The r -interdiction selective multi-depot vehicle routing problem," Mir Ehsan Hesam Sadati, Deniz Aksen and Necati Aras. **International Transactions in Operational Research**, **27**(2), 835-866, March 2020 ([doi:10.1111/itor.12669](https://doi.org/10.1111/itor.12669)).
6. "Formulation and a two-phase matheuristic for the roaming salesman problem: Application to election logistics," Masoud Shahmanzari, Deniz Aksen and Saïd Salhi. **European Journal of Operational Research**, **280**(2), 656-670, January 2020 ([doi:10.1016/j.ejor.2019.07.035](https://doi.org/10.1016/j.ejor.2019.07.035)).
7. "Partisan and apportionment bias in creating a predominant party system," Ali Çarkoğlu and Deniz Aksen. **Political Geography**, **69**, 43-53, March 2019 ([doi:10.1016/j.polgeo.2018.11.009](https://doi.org/10.1016/j.polgeo.2018.11.009)).
8. "An adaptive large neighborhood search algorithm for a selective and periodic inventory routing problem," Deniz Aksen, Onur Kaya, F. Sibel Salman and Özge Tüncel. **European Journal of Operational Research**, **239**(2), 413-426, December 2014 ([doi:10.1016/j.ejor.2014.05.043](https://doi.org/10.1016/j.ejor.2014.05.043)).
9. "A bilevel partial interdiction problem with capacitated facilities and demand outsourcing," Deniz Aksen, Sema Şengül Akca and Necati Aras. **Computers & Operations Research**, **41**(1), 346-358, January 2014 ([doi:10.1016/j.cor.2012.08.013](https://doi.org/10.1016/j.cor.2012.08.013)).
10. "A bilevel p -median model for the planning and protection of critical facilities," Deniz Aksen, Necati Aras and Nuray Piyade. **Journal of Heuristics**, **19**(2), 373-398, April 2013 ([doi:10.1007/s10732-011-9163-5](https://doi.org/10.1007/s10732-011-9163-5)).

11. "Selective and periodic inventory routing problem for waste vegetable oil collection," Deniz Aksen, Onur Kaya, F. Sibel Salman and Yeliz Akça. *Optimization Letters*, **6**(6), 1063-1080, August 2012 ([doi:10.1007/s11590-012-0444-1](https://doi.org/10.1007/s11590-012-0444-1)).
12. "A bilevel fixed charge location model for facilities under imminent attack," Deniz Aksen and Necati Aras. *Computers & Operations Research*, **39**(7), 1364-1381, July 2012 ([doi:10.1016/j.cor.2011.08.006](https://doi.org/10.1016/j.cor.2011.08.006)).
13. "Selective multi-depot vehicle routing problem with pricing," Necati Aras, Deniz Aksen and Mehmet Tuğrul Tekin. *Transportation Research Part C: Emerging Technologies*, **19**(5), 866-884, August 2011 ([doi:10.1016/j.trc.2010.08.003](https://doi.org/10.1016/j.trc.2010.08.003)).
14. "The budget constrained r -interdiction median problem with capacity expansion," Deniz Aksen, Necati Aras and Nuray Piyade. *Central European Journal of Operations Research*, **18**(3), 269–291, September 2010 ([doi:10.1007/s10100-009-0110-6](https://doi.org/10.1007/s10100-009-0110-6)).
15. "Design and analysis of government subsidized collection systems for incentive-dependent returns," Deniz Aksen, Necati Aras and Ayşe Gönül Karaarslan. *International Journal of Production Economics*, **119**(2), 308–327, June 2009 ([doi:10.1016/j.ijpe.2009.02.012](https://doi.org/10.1016/j.ijpe.2009.02.012)).
16. "Locating collection centers for incentive-dependent returns under a pick-up policy with capacitated vehicles," Necati Aras, Deniz Aksen and Ayşe Gönül Tanuğur. *European Journal of Operational Research*, **191**(3), 1223–1240, December 2008 ([doi:10.1016/j.ejor.2007.08.002](https://doi.org/10.1016/j.ejor.2007.08.002)).
17. "A location-routing problem for the conversion to the 'click-and-mortar' retailing: The static case," Deniz Aksen and Kemal Altinkemer. *European Journal of Operational Research*, **186**(2), 554–575, April 2008 ([doi:10.1016/j.ejor.2007.01.048](https://doi.org/10.1016/j.ejor.2007.01.048)).
18. "Locating collection centers for distance- and incentive-dependent returns," Necati Aras and Deniz Aksen. *International Journal of Production Economics*, **111**(2), 316–333, February 2008 ([doi:10.1016/j.ijpe.2007.01.015](https://doi.org/10.1016/j.ijpe.2007.01.015)).
19. "The open vehicle routing problem with driver nodes and time deadlines," Deniz Aksen, Zeynep Özyurt and Necati Aras. *Journal of the Operational Research Society*, **58**(9), 1223–1234, September 2007 ([doi:10.1057/palgrave.jors.2602249](https://doi.org/10.1057/palgrave.jors.2602249)).
20. "Loss of customer goodwill in the uncapacitated lot-sizing problem," Deniz Aksen. *Computers & Operations Research*, **34**(9), 2805–2823, September 2007 ([doi:10.1016/j.cor.2005.10.012](https://doi.org/10.1016/j.cor.2005.10.012)).
21. "The single-item lot-sizing problem with immediate lost sales," Deniz Aksen, Kemal Altinkemer and Suresh Chand. *European Journal of Operational Research*, **147**(3), 558–566, June 2003 ([doi:10.1016/S0377-2217\(02\)00331-4](https://doi.org/10.1016/S0377-2217(02)00331-4)).

International Book Chapters And Conference Proceedings (Refereed):

1. "A Periodic Traveling Politician Problem with Time-Dependent Rewards," Deniz Aksen and Masoud Shahmanzari. In: *Operations Research Proceedings 2016*, A Fink, A Fügenschuh, M J Geiger (Eds.), pp. 277–283. ISBN: 978-3-319-55701-4, Springer Verlag (2018). ([doi:10.1007/978-3-319-55702-1_37](https://doi.org/10.1007/978-3-319-55702-1_37))
2. "A matheuristic for leader-follower games involving facility location-protection-interdiction decisions," Deniz Aksen and Necati Aras. In: *Metaheuristics For Bi-level Optimization*. Studies in Computational Intelligence. El-Ghazali Talbi (Ed.), Vol. **482**, pp 115–151. ISSN: 1860-949X (Print) 1860-9503 (Online), Springer Berlin Heidelberg (2013). ([doi:10.1007/978-3-642-37838-6_5](https://doi.org/10.1007/978-3-642-37838-6_5))
3. "Location and selective routing problem with pricing for the collection of used products," Necati Aras, Deniz Aksen and Mehmet Tuğrul Tekin. In: *Proceedings of the 40th International Conference on Computers and Industrial Engineering (CIE)*, Awaji. ISBN: 978-1-4244-7295-6. IEEE Xplore® 2010. ([doi:10.1109/ICCIE.2010.5668217](https://doi.org/10.1109/ICCIE.2010.5668217))

4. "Design of a government-subsidized collection system for incentive-dependent returns," Ayşe Gönül Tanuğur, Deniz Aksen and Necati Aras. In: **Proceedings of the International Conference on Industrial Engineering and Engineering Management 2007 (IEEM2007)**, Singapore. ISBN: 978-1-4244-1529-8. IEEE Xplore® 2007. ([doi:10.1109/IEEM.2007.4419290](https://doi.org/10.1109/IEEM.2007.4419290))
5. "Solving the multi-depot location-routing problem with Lagrangian Relaxation," Zeynep Özyurt and Deniz Aksen. In: **Extending The Horizons: Advances in Computing, Optimization and Decision Technologies (ICS 2007 Conference Volume)**, EK Baker, A Joseph, A Mehrotra, MA Trick (Eds.), Vol. 37, pp. 125–144. ISBN 978-0-387-48790-8, Springer Verlag (2007). ([doi:10.1007/978-0-387-48793-9_9](https://doi.org/10.1007/978-0-387-48793-9_9))
6. "Open Vehicle Routing Problem with Time Deadlines: Solution Methods and An Application," Zeynep Özyurt, Deniz Aksen and Necati Aras. In: **Operations Research Proceedings 2005**, H-D Haasis, H Kopfer, J Schönberger (Eds.), pp. 73–78. ISBN: 3-540-32537-9, Springer Verlag (2006). ([doi:10.1007/3-540-32539-5_12](https://doi.org/10.1007/3-540-32539-5_12))
7. "Customer Selection and Profit Maximization in Vehicle Routing Problems," Deniz Aksen and Necati Aras. In: **Operations Research Proceedings 2005**, H-D Haasis, H Kopfer, J Schönberger (Eds.), pp. 37–42. ISBN: 3-540-32537-9, Springer Verlag (2006). ([doi:10.1007/3-540-32539-5_6](https://doi.org/10.1007/3-540-32539-5_6))
8. "Stochastic Modeling of Group Decision Support Systems," Deniz Aksen, Kemal Altinkemer and Jackie Rees. In: **Proceedings from the Fourth INFORMS Conference on Information Systems and Technology (CIST-1999)**, E. Rolland and N.S. Umanath (Eds.), pp. 131–141 (1999).

Other Publications:

1. "An Empirical Investigation of Four Well-Known Polynomial-Size VRP Formulations," Deniz Aksen, Temel Öncan and Mir Ehsan Hesam Sadati. **arXiv preprint** (available online 29 September 2018) ([arXiv:1810.00199](https://arxiv.org/abs/1810.00199)).
2. "İnternet'in İ'si: Deniz Aksen'le İnternet'in tarihine yolculuk...", Deniz Aksen. **KULE Dergisi**, Sayı: 38 (Yaz 2014). Koç Üniversitesi.
3. "Doğayı Koruyan, Maliyeti Azaltan Akaryakıt Üretimi," Deniz Aksen. **FENER Araştırma Dergisi**, Sayı: 9 (Güz 2014). Koç Üniversitesi.
4. "Preserving the Nature and Lowering the Costs in Fuel Production," Deniz Aksen. **FRONTIER Research Magazine**, Issue: 9 (Fall 2014). Koç University.
5. "İnternet'e nasıl bağlanmalı?: ADSL mi, Kablo mu, Dial-up mı," Deniz Aksen and A. Orhan Özalp. **tele.com.tr telekom türkiye: İletişim Teknolojileri Dergisi**, ISSN: 1304-9445, s. 34–40, Ocak 2005.
6. "Metamorphosis from 'brickandmortar' to 'clickandmortar' business model," Deniz Aksen and Kemal Altinkemer. **The 3rd International Conference on Telecommunications and Electronic Commerce (ICTEC3)**, Dallas, Texas, USA, November 2000. (on CD)
7. "Change strategy from 'brickandmortar' to 'clickandmortar' business model," Deniz Aksen and Kemal Altinkemer. **The 5th INFORMS Conference on Information Systems and Technology (CIST-2000)**, San Antonio, Texas, USA, November 2000. (on CD)
8. "Teach Yourself GAMS," A premier for the General Algebraic Modeling System, Deniz Aksen. **Boğaziçi University Press**, İstanbul, December 1998.
9. "Mecidiyeköy Meydanındaki Trafik Işıklarının Düzenlenmesi," Deniz Aksen, Murat Aksu, İ. Kuban Altinel and M. Bayram Yıldırım. **Endüstri Mühendisliği**, Vol. 5 (6), pp. 3–16, November–December 1994.

CONFERENCE PRESENTATIONS & ORGANIZATIONS

1. "An Efficient Variable Neighborhood Search With Tabu Shaking For Class Of Multi-Depot Vehicle Routing Problems," *Yöneylem Araştırması / Endüstri Mühendisliği 40. Ulusal Kongresi (YA/EM 2021)*, *Boğaziçi Üniversitesi*, İstanbul, Turkey, July 05-07th 2021 (online).
2. "A Trilevel r -Interdiction Selective Multi-Depot Vehicle Routing Problem," *VeRoLog 2019 – Annual Workshop of the EURO Working Group on Vehicle Routing and Logistics Optimization*, Sevilla, Spain, June 02–05th 2019.
3. "A Trilevel r -Interdiction Multi-Depot Vehicle Routing Problem with Customer Selection," *ICVNS 2018 – The 6th International Conference on Variable Neighborhood Search*, Sithonia, Halkidiki, Greece, October 04–07th 2018.
4. "A Granular Skewed Variable Neighborhood Tabu Search for the Roaming Salesman Problem," *ICVNS 2018 – The 6th International Conference on Variable Neighborhood Search*, Sithonia, Halkidiki, Greece, October 04–07th 2018.
5. "The r -Depot Interdiction Vehicle Routing Problem with Demand Outsourcing," *VeRoLog 2017 – Annual Workshop of the EURO Working Group on Vehicle Routing and Logistics Optimization*, Amsterdam, Netherlands, July 10–12th 2017.
6. "The Political Campaigning Problem: A Selective and Periodic TSP Perspective on Electoral Campaigns," *OR2016 – The Annual International Conference of the German Operations Research Society*, Hamburg, Germany, August 30–September 02nd 2016.
7. "MILP Formulations for the VRP with Precedence Constraints," *EURO XXVII (27th European Conference on Operational Research)*, Glasgow, Scotland, July 12–15th 2015.
8. "Benchmarking MIP Formulations for the VRP—Battlefield VRP: Clash of Formulations, Valid Inequalities, Commercial Solvers and Solver Options," *ODYSSEUS 2015 (Sixth International Workshop on Freight Transportation and Logistics)*, Ajaccio, Corsica, France, May 31-June 05th 2015.
9. "Heuristics For Solving A Discrete Location-Partial Interdiction Problem With Capacitated Facilities and Demand Outsourcing," *HELORS 2014 (3rd International Symposium and 25th National Conference on Operational Research)*, Volos, Greece, June 26-28th 2014.
10. "An Adaptive Large Neighborhood Search Algorithm for a Selective and Periodic Inventory Routing Problem," (ID No. 064), *ISOLDE 2014 (XIII International Symposium on Locational Decision)*, Naples/Capri, Italy, June 16-20th 2014.
11. "Atık Bitkisel Yağların Biyodizel Üretimi İçin Toplanması Modelleyen Seçici ve Devirli Bir Envanter Rotalama Problemi," *Yöneylem Araştırması / Endüstri Mühendisliği 32. Ulusal Kongresi (YA/EM 2012)*, *Doğuş Üniversitesi*, İstanbul, Turkey, June 20-22nd 2012.
12. "A Bilevel Partial Interdiction Problem With Capacitated Facilities And Demand Outsourcing," *ODYSSEUS 2012 (Fifth International Workshop on Freight Transportation and Logistics)*, Mykonos, Greece, May 21-25th 2012.
13. "İstanbul'daki Hastanelerden Tıbbi Atıkların Toplanması İçin Ara Tesise Uğramalı Bir Araç Rotalama Modeli," *Yöneylem Araştırması / Endüstri Mühendisliği 31. Ulusal Kongresi (YA/EM 2011)*, *Sakarya Üniversitesi*, Sakarya, Turkey, July 05-07th 2011.
14. "A Bilevel Fixed Charge Location Model for Facilities under Imminent Attack," *EURO XXIV (24th European Conference on Operational Research)*, Lisbon, Portugal, July 11–14th 2010.
15. "Kullanılmış Ürünlerin Bayilerden Toplanması İçin Bütünleşik Yer Seçimi, Fiyat Belirleme ve Araç Rotalama Problemi," *Yöneylem Araştırması / Endüstri Mühendisliği 30. Ulusal Kongresi (YA/EM 2010)*, *Sabancı Üniversitesi*, İstanbul, Turkey, June 30-July 02nd 2010.
16. "Collection System Design Problem with Routing," *ODYSSEUS 2009 (Fourth International Workshop on Freight Transportation and Logistics)*, Çeşme, İzmir, Turkey, May 26-29th 2009.

17. "Routing of Personnel Shuttles for a Call Center: An Open Vehicle Routing Application," **ODYSSEUS 2009 (Fourth International Workshop on Freight Transportation and Logistics)**, Çeşme, İzmir, Turkey, May 26-29th 2009.
18. "Budget Constrained Fortification and Service Capacity Expansion in the Bilevel r -Interdiction Median Problem," **Eleventh INFORMS Computing Society (ICS) Conference**, Charleston, USA, January 11–13th 2009.
19. "An Open Vehicle Routing Application for the Personnel of a Call Center," **OR2008 – the Annual International Conference of the German Operations Research Society**, Augsburg, Germany, September 03–05th 2008.
20. "Design of a Government-Subsidized Collection System for Incentive-Dependent Returns," **The International Conference on Industrial Engineering and Engineering Management (IEEM 2007)**, Singapore, December 02–05th 2007.
21. "Kârli Gezgin Satıcı Problemi İçin Sezgisel Yöntemler," **Yöneylem Araştırması / Endüstri Mühendisliği 27. Ulusal Kongresi (YA/EM 2007)**, İzmir, Turkey, July 02–04th 2007.
22. "Solving The Multi-Depot Location-Routing Problem With Lagrangian Relaxation," **Tenth INFORMS Computing Society (ICS) Conference**, Coral Gables, USA, January 03–05th 2007.
23. "Locating collection centers with distance and incentive dependent returns," **IWDL2006 – the 6th International Workshop on Distribution Logistics**, Brescia, Italy, October 02-04th 2006.
24. "Profit Maximization in Vehicle Routing Problems," **OR2005 – the Annual International Conference of the German Operations Research Society**, Bremen, Germany, September 07–09th 2005.
25. "Customer Selection and Profit Maximization in Vehicle Routing Problems," **Ninth INFORMS Computing Society (ICS) Conference**, Annapolis, USA, January 05–07th 2005.
26. "Customer Selection and Lost Demand in Vehicle Routing Problems," **CORS/INFORMS Joint International Meeting**, Banff, Canada, May 16–19th 2004.
27. "Doktora süreci ve sonrası ile ilgili gözlemler," with İ. Kuban Altınel and Necati Aras, **OR/IE Doctoral Students Colloquium of Turkey**, Koç University, Istanbul, Turkey, November 14–15th 2003.
28. "Conversion from brick-and-mortar to click-and-mortar business model in retailing," **EURO/INFORMS Joint International Meeting**, Istanbul, Turkey, July 06–10th 2003.
29. "Loss of customer goodwill in the single item lot-sizing problem with immediate lost sales," **EURO/INFORMS Joint International Meeting**, Istanbul, Turkey, July 06–10th 2003.
30. "Metamorphosis from 'brickandmortar' to 'clickandmortar' business model," with Kemal Altinkemer, **3rd International Conference on Telecommunications and Electronic Commerce (ICTEC3)**, Dallas, Texas, USA, November 16-19th 2000.
31. "Stochastic Modeling of Group Decision Support Systems," **Fourth INFORMS Conference on Information Systems and Technology (CIST-1999)**, Cincinnati, Ohio, USA, May 02–05th 1999.
32. "Saddle Point Algorithm for LP: Anatomy of a scientific failure," **INdAM Workshop: Numerical Methods in Optimization**, Cortona, Italy, June 09–12th 1997.

EDITORIAL POSITIONS

1. February 2015 to date, Area Editor for Logistics in **Networks and Spatial Economics (NETS)**
 - A Journal of Infrastructure Modeling and Computation (Published by Springer).
 - Abstracted / Indexed in, among others, Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, Google Scholar, and SCImago.

COURSES TAUGHT & EXECUTIVE EDUCATION

- **Koç University**
 - **MGIS 902**, Management Information Systems (in the Executive MBA program), 3 semesters
 - **MGIS 501**, Management Information Systems (in the MBA program), 2 semesters
 - **MGIS 410/510**, Electronic Commerce Management, 18 semesters
 - **MGIS 301**, Management Information Systems, 14 semesters
 - **QMBU 310**, Introduction to Management Science, 6 semesters
 - **QMBU 501**, Introduction to Management Science, 1 semester
 - **QMBU 653**, Selected Topics in Operations Management: Optimization Models, 1 semester
 - Office Automation Applications (MS-Office) in **TURQUALITY®** Executive Development Certification Program, 12 cohorts
- **Purdue University**
 - **MGMT 547**, Computer Communication Systems, 2 semesters
 - **MGMT 490S**, Introduction to Management Information Systems, 1 semester
- **Boğaziçi University**
 - **IE 585**, Discrete Optimization Models In Location And Routing, 1 semester as Visiting Scholar
 - **IE 515**, Network Theory, 1 semester as TA
 - **IE 560**, Mathematical Modeling, 2 semesters as TA
 - **IE 303**, Computer Methods in Operations Research, 3 semesters as TA
 - **IE 202**, Operations Research I, 1 semester as TA

GRADUATE STUDENT SUPERVISION

Student's Name	Thesis Title	Year
Fatemeh Zarebidaki	<i>Operational and Strategic Planning for Wildfire Watch with Drones (PhD Thesis)</i>	in progress
Masoud Shahmanzari	<i>The Roaming Salesman Problem: An Application to Election Logistics (PhD Thesis)</i>	Feb 2019
Mir Ehsan Hesam Sadati	<i>A trilevel r-interdiction multi-depot vehicle routing problem with depot protection and customer selection (PhD Thesis)</i>	Dec 2018
Mehmet Tuğrul Tekin	<i>Collection system design problem with routing under a pick-up policy (PhD Thesis)</i>	Sep 2018
Özge Tüncel	<i>An Adaptive Large Neighborhood Search Algorithm for Selective and Periodic Inventory Routing Problem</i>	2013
Pelin Ekmen	<i>A Tabu Search Heuristic for the Vehicle Routing Problem with Time Deadlines and Asymmetric Distances</i>	2013
İlknur Çoğal	<i>A Three-level Defender-Attacker Problem with Partial Interdiction</i>	2013
Müge Güçlü	<i>Routing of the Medical Waste Collection Vehicles for the Istanbul Metropolitan Municipality</i>	2012
Yeliz Akça	<i>Selective and Periodic Inventory Routing Problem for Collection of End-of-Life Products</i>	2011
Sema Şengül Akca	<i>A Bilevel Partial Interdiction Problem with Capacitated Facilities and Demand Outsourcing</i>	2011
Nuray Piyade	<i>A Bilevel p-median Problem for Location and Protection Planning of Critical Facilities</i>	2009
Ayşe Gönül Karaarslan	<i>Design and Analysis of Collection Systems for Incentive-Dependent Product Recovery</i>	2008
Zeynep Özyurt Taş	<i>Solving Multi-Depot Location Routing Problem Using Lagrangian Relaxation</i>	2007