



Deniz Aksen

Assistant Professor of Management Information Systems

Koç University

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

Koç University,
Rumelifeneri Yolu, Sarıyer 34450 İSTANBUL, TURKEY

T: +90 212 338 16 84 F: +90 212 338 16 84

daksen@ku.edu.tr <http://home.ku.edu.tr/~daksen/>

h-index = 5, citations in Scopus = 100 (computed as of January 28, 2012)

RESEARCH INTERESTS

1. Distribution Logistics
2. Reverse Logistics
3. Facility and Network Interdiction Problems
4. Heuristic Methods for Combinatorial and Bilevel Optimization

TEACHING INTERESTS

1. Management Information Systems
2. Electronic Commerce and Internet Marketing
3. Search Engine Marketing and Optimization
4. Security of Information

EDUCATION

- Doctor of Philosophy (Management – MIS), 2003
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
- Master of Science (Industrial Engineering), 1996
Department of Industrial Engineering, Boğaziçi University, Istanbul, Turkey
Thesis Title: Theoretical and experimental analysis of a saddle point algorithm for linear programming.
- Bachelor of Science (Industrial Engineering), 1994
Department of Industrial Engineering, Boğaziçi University, Istanbul, Turkey

PROFESSIONAL EXPERIENCE

- Spring 2003 - to date, 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 1996 - Spring 1997, ABAP/4 Programmer, ABB Informatics GmbH, Mannheim, Germany
- Fall 1994 - Summer 1996, Graduate Teaching Assistant, Boğaziçi University

TEACHING EXPERIENCE

- **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**, Electronic Commerce Infrastructure and Business Models, *8 semesters*
 - **MGIS 301**, Management Information Systems, *10 semesters*
 - Office Automation Applications (MS-Office) in **TURQUALITY®** Executive Development Certification Program, *9 times*
- **Purdue University**
 - **MGMT 547**, Computer Communication Systems, *2 semesters*
 - **MGMT 490S**, Introduction to Management Information Systems, *1 semester*

- **Boğaziçi University**

- 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*

PUBLICATIONS IN JOURNALS OF THE SCIENCE CITATION INDEX (SCI)

1. "Selective and periodic inventory routing problem for waste vegetable oil collection," Deniz Aksen, Onur Kaya, F. Sibel Salman and Yeliz Akça. To appear in *Optimization Letters* ([doi:10.1007/s11590-012-0444-1](https://doi.org/10.1007/s11590-012-0444-1)).
2. "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)).
3. "A bilevel p -median model for the planning and protection of critical facilities," Deniz Aksen, Necati Aras and Nuray Piyade. To appear in *Journal of Heuristics* ([doi:10.1007/s10732-011-9163-5](https://doi.org/10.1007/s10732-011-9163-5)).
4. "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, Aug 2011 ([doi:10.1016/j.trc.2010.08.003](https://doi.org/10.1016/j.trc.2010.08.003)).
5. "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, Sep 2010 ([doi:10.1007/s10100-009-0110-6](https://doi.org/10.1007/s10100-009-0110-6)).
6. "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)).
7. "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, Dec 2008 ([doi:10.1016/j.ejor.2007.08.002](https://doi.org/10.1016/j.ejor.2007.08.002)).
8. "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)).
9. "Locating collection centers for distance- and incentive-dependent returns," Necati Aras and Deniz Aksen. *International Journal of Production Economics*, **111**(2), 316–333, Feb 2008 ([doi:10.1016/j.ijpe.2007.01.015](https://doi.org/10.1016/j.ijpe.2007.01.015)).
10. "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)).
11. "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)).
12. "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)).

OTHER PUBLICATIONS

1. "A metaheuristic for leader-follower games involving facility location-protection-interdiction decisions," Deniz Aksen and Necati Aras. Under review in: *Metaheuristics For Bi-level Optimization*. Springer Series on Computational Intelligence. El-Ghazali Talbi and Luce Brotcorne (Eds.). Springer Science+Business Media.
2. "Location and selective routing problem with pricing for the collection of used products," Necati Aras, Deniz Aksen and Mehmet Tuğrul Tekin. *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)).

3. "Design of a government-subsidized collection system for incentive-dependent returns," Ayşe Gönül Tanuğur, Deniz Aksen and Necati Aras. **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)).
4. "Solving the multi-depot location-routing problem with Lagrangian Relaxation," Zeynep Özyurt and Deniz Aksen. **Extending The Horizons: Advances in Computing, Optimization and Decision Technologies**. 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)).
5. "Open Vehicle Routing Problem with Time Deadlines: Solution Methods and An Application," Zeynep Özyurt, Deniz Aksen and Necati Aras. **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)).
6. "Customer Selection and Profit Maximization in Vehicle Routing Problems," Deniz Aksen and Necati Aras. **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)).
7. "Internet'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.
8. "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.
9. "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.
10. "Stochastic modeling of group decision support systems," Deniz Aksen, Kemal Altinkemer and Jackie Rees. **The 4th INFORMS Conference on Information Systems and Technology (CIST-1999)**, Cincinnati, Ohio, USA, May 1999.
11. "Teach Yourself GAMS," A premier for the General Algebraic Modeling System, Deniz Aksen. **Boğaziçi University Press**, Istanbul, December 1998.
12. "Mecidiyeköy Meydanındaki Trafik Işıklarının Düzenlenmesi," Deniz Aksen, Murat Aksu, İ. Kuban Altınel and M. Bayram Yıldırım. **Endüstri Mühendisliği**, Vol. 5 (6), pp. 3–16, November–December 1994.

CONFERENCE PRESENTATIONS

1. "İstanbul'daki Hastanelerden Tıbbi Atıkların Toplanması İçin Ara Tesise Uğramalı Bir Araç Rotalama Modeli," **Yönelem Araştırması / Endüstri Mühendisliği 31. Ulusal Kongresi (YA/EM 2011)**, Sakarya Üniversitesi, Sakarya, Turkey, July 05-07th 2011.
2. "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.
3. "Kullanılmış Ürünlerin Bayilerden Toplanması İçin Bütünleşik Yer Seçimi, Fiyat Belirleme ve Araç Rotalama Problemi," **Yönelem Araştırması / Endüstri Mühendisliği 30. Ulusal Kongresi (YA/EM 2010)**, Sabancı Üniversitesi, İstanbul, Turkey, June 30-July 02nd 2010.
4. "Collection System Design Problem with Routing," **ODYSSEUS 2009 (Fourth International Workshop on Freight Transportation and Logistics)**, Çeşme, İzmir, Turkey, May 26-29th 2009.
5. "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.
6. "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.

7. "An Open Vehicle Routing Application for the Personnel of a Call Center," *International Conference on Operations Research 2008 (OR2008)*, Augsburg, Germany, September 03–05th 2008.
8. "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.
9. "Kârlı Gezgin Satıcı Problemi İçin Sezgisel Yöntemler," *Yöneylem Araştırması / Endüstri Mühendisliği 27. Ulusal Kongresi (YA/EM 2007)*, İzmir, Turkey, July 02–04th 2007.
10. "Solving The Multi-Depot Location-Routing Problem With Lagrangian Relaxation," *Tenth INFORMS Computing Society (ICS) Conference*, Coral Gables, USA, January 03–05th 2007.
11. "Locating collection centers with distance and incentive dependent returns," *IWDL2006 – the 6th International Workshop on Distribution Logistics*, Brescia, Italy, October 02-04th 2006.
12. "Profit Maximization in Vehicle Routing Problems," *OR2005 – the Annual International Conference of the German Operations Research Society*, Bremen, Germany, September 07–09th 2005.
13. "Customer Selection and Profit Maximization in Vehicle Routing Problems," *Ninth INFORMS Computing Society (ICS) Conference*, Annapolis, USA, January 05–07th 2005.
14. "Customer Selection and Lost Demand in Vehicle Routing Problems," *CORS/INFORMS Joint International Meeting*, Banff, Canada, May 16–19th 2004.
15. "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.
16. "Conversion from brick-and-mortar to click-and-mortar business model in retailing," *EURO/INFORMS Joint International Meeting*, Istanbul, Turkey, July 06–10th 2003.
17. "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.
18. "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.
19. "Saddle Point Algorithm for LP: Anatomy of a scientific failure," *INdAM Workshop: Numerical Methods in Optimization*, Cortona, Italy, June 09–12th 1997.

RESEARCH IN PROGRESS or UNDER REVIEW

1. "An attacker-defender game for a capacitated facility interdiction problem with partial interdiction and optional outsourcing," with Sema Şengül Akca and Necati Aras.
2. "Service network design against an intelligent attacker: A trilevel facility interdiction problem with partial interdiction and optional outsourcing," with İlknur Çoğal and Necati Aras.
3. "A tabu search algorithm for the location-routing problem with uncapacitated depots," with Mehmet Tuğrul Tekin and Necati Aras.
4. "Selective location-routing problem with pricing for the collection of used products," with Mehmet Tuğrul Tekin and Necati Aras.
5. "Routing of the medical waste collection vehicles for the Istanbul Metropolitan Municipality," with Müge Güçlü and Tülin Aktin.

SPECIAL AWARDS, HONORS AND GRANTS (in chronological order)

1. **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)
2. **TÜBİTAK-BİDEB 2224**: Conference Travel Grant for attending IEEM 2007 in Singapore. (Amount: US\$ 1,500)
3. **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)
4. **TÜBİTAK-BİDEB 2224**: Conference Travel Grant for attending IWDL 2006 in Brescia, Italy. (Amount: US\$ 1,000)
5. **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)
6. **KÜMPER** (Koç Üniversitesi Migros Perakendecilik Eğitim Merkezi) Project Funding Grant in October 2004. (Amount: US\$ 2,000)
7. **The Krannert Dean's Certificate of Recognition for Teaching Excellence**, Fall 2001.
8. **Purdue Research Foundation (PRF) Research Grant**, for the school year of 2000-2001.
9. **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.

GRADUATE THESES (CO-)SUPERVISED (in chronological order)

Student`s Name	Thesis Title	Year of Completion
Mehmet Tuğrul Tekin	<i>Collection System Design Problem with Routing (Ph.D. Thesis)</i>	in progress
Müge Güçlü	<i>Routing of the Medical Waste Collection Vehicles for the Istanbul Metropolitan Municipality</i>	in progress
İlknur Çoğal	<i>A Three-level Defender-Attacker Problem with Partial Interdiction</i>	in progress
Sema Şengül	<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

REFEREE FOR (in alphabetical order)

1. Applied Mathematical Modelling
2. Annals of Operations Research
3. Central European Journal of Operations Research
4. Computers & Operations Research
5. Computers & Industrial Engineering
6. Decision Support Systems
7. Electronic Commerce Research/ Electronic Commerce Research and Applications
8. Endüstri Mühendisliği Dergisi
9. European Journal of Operational Research
10. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans

11. Innovations in Distribution Logistics, L Bertazzi, J van Nunen, MG Speranza (Eds.), Lecture Notes in Economics and Mathematical Systems, Springer Verlag, 2006.
12. International Journal of Production Economics
13. Journal of Global Optimization
14. Journal of the Operational Research Society
15. Naval Research Logistics
16. ODYSSEUS 2009, Fourth International Workshop on Freight Transportation and Logistics, May 26-29th, Çeşme, Turkey.
17. OMEGA - The International Journal of Management Science
18. Production and Operations Management
19. The 2nd International Industrial Engineering Conference, Dec. 19-21st 2004, Riyadh, Kingdom of Saudi Arabia.
20. The 10th INFORMS Computing Society Conference, Jan. 03-05th 2007, Coral Gables, Florida, USA.
21. The 15th International Conference on Multi-Criteria Decision Making (MCDM'00), M. Köksalan and S. Zionts (Eds.).
22. The Handbook of Information Security, Hossein Bidgoli (Ed.), John Wiley & Sons, Inc. 2006.
23. The International Conference on Industrial Engineering and Engineering Management 2007 (IEEM2007), Dec. 02-05th 2007, Singapore.
24. Transactions on Operational Research, Publication of the Operational Research Society, Turkey.
25. Transportation Research Part C - Emerging Technologies
26. Transportation Science
27. TÜBİTAK - ARDEB Support Program for Scientific and Technological Research & Development Projects.
28. TÜBİTAK - KAMAG Support Program for Public Research & Development Projects.
29. TÜBİTAK - TEYDEB Support Program for Industrial Research & Development Projects.
30. TÜSİAD - TBV's (Informatics Foundation of Turkey) eTR Awards 2006 (www.etrodulleri.org)

REFERENCES

1. **Prof. Barış Tan**, *Koç University, College of Administrative Sciences and Economics, Istanbul-Turkey*,
 btan@ku.edu.tr ,  + 90(212) 338-1459,  +90(212) 338-1653
2. **Prof. H. Mete Soner**, *Swiss Federal Institute of Technology Zurich, Department of Mathematics, Switzerland*,
 mete.soner@math.ethz.ch ,  +41(44) 632-2755,  +41(44) 632-1474
3. **Prof. Kemal Altinkemer**, *Purdue University, Krannert Graduate School of Management*,
 kemal@mgt.purdue.edu,  +1(765) 494-9009,  +1(765) 494-1526
4. **Prof. İ. Kuban Altinel**, *Boğaziçi University, Department of Industrial Engineering, Istanbul-Turkey*,
 altinel@boun.edu.tr ,  + 90(212) 359-7076,  +90(212) 265-1800

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