

FATMA SIBEL SALMAN

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College of Engineering, Koç University, Rumeli Feneri Yolu, Sariyer 34450, Istanbul, Turkey.

EDUCATION

Ph.D. in Operations Research	2000
Carnegie Mellon University, Pittsburgh, PA, USA (with first rank)	
M.Sc. in Industrial Administration	1997
Carnegie Mellon University, Pittsburgh, PA, USA	
M.Sc. in Industrial Engineering	1994
Bilkent University, Ankara, Turkey	
B.Sc. in Industrial Engineering	1992
Bilkent University, Ankara, Turkey (with first rank)	

PROFESSIONAL EXPERIENCE

Academic Positions

Professor – College of Engineering, Koç University, Istanbul, Turkey	03/19-current
Associate Professor – College of Engineering, Koç University, Istanbul, Turkey	11/12-02/19
Assistant Professor – College of Engineering, Koç University, Istanbul, Turkey	9/03-10/12
Assistant Professor – Krannert School of Management, Purdue University, West Lafayette, IN, USA	8/00-8/03
Research Assistant – Department of Industrial Engineering, Bilkent University, Ankara, Turkey	9/92-7/95

Visiting Scholar

School of Business and Economics, Vrije University, Amsterdam, Holland	3/19-6/19
R. H. Smith School of Business, University of Maryland, College Park, MD, USA	10/13-1/14

Industry Experience

Summer Intern – IBM, T.J. Watson Research Center, Yorktown Heights, NY, USA.	6/98, 7/97-9/97
Developed and analyzed approximation algorithms for multiple knapsack problems; developed and implemented algorithms for a steel-mill scheduling problem	

RESEARCH AREAS

Methodologies: Network models and optimization, integer and stochastic programming, metaheuristics, design and analysis of online and approximation algorithms.

Application Areas: Disaster preparedness and response logistics, humanitarian logistics, network design, routing and restoration in networks, facility location, healthcare logistics, production scheduling.

PUBLICATIONS

Publications in Refereed Journals

1. E. Yücel, G. Erdoğan and F. S. Salman, “Optimizing Two-dimensional Vehicle Loading and Dispatching Decisions in Freight Logistics”, *European Journal of Operational Research*, available online, 2022.
2. O. B. Bayraktar, D. Gunec, F. S. Salman and E. Yucel, “Relief Aid Provision to En Route Refugees: Multi-Period Mobile Facility Location with Mobile Demand”, *European Journal of Operational Research*, available online, 2021.

3. U. Ermağan, B. Yıldız and F. S. Salman, "A Learning Based Algorithm for Drone Routing", *Computers and Operations Research*, 137, 105524, 2022.
4. E. S. Gel and F. S. Salman, "Dynamic Ordering Decisions with Approximate Learning of Supply Yield Uncertainty", *International Journal of Production Economics*, 243, 108252, 2022.
5. M. Ajam, V. Akbari and F. S. Salman, "Routing Multiple Work Teams to Minimize Latency in Post-disaster Road Network Restoration", *European Journal of Operational Research*, 300:1, 237-254, 2022.
6. V. Akbari, D. Shiri and F. S. Salman, "An Online Optimization Approach to Post-disaster Road Restoration", *Transportation Research Part B: Methodological*, 150, 1-25, 2021.
7. R. Kian, G. Erdoğan, S. de Leeuw, F. S. Salman, E. Sabet, B. Y. Kara, and M. H. Demir, "Logistics Planning of Cash Transfer to Syrian Refugees in Turkey", *European Journal of Operational Research*, available online, 2021.
8. F. S. Salman, E. Yücel, İ. Kayı, S. Turper-Alışık and A. Coşkun, "Modeling Mobile Health Service Delivery to Syrian Migrant Farm Workers Using Call Record Data", *Socio-Economic Planning Sciences*, 77, 101005, 2021.
9. A. Cinar, F. S. Salman and B. Bozkaya, "Prioritized Single Nurse Routing and Scheduling for Home Healthcare Services", *European Journal of Operational Research*, 289:3, 867-878, 2021.
10. O. M. Araz, T-M. Choi, D. L. Olson and F. S. Salman, "Role of Analytics for Operational Risk Management in the Era of Big Data", *Decision Sciences*, 51:6, 1320-1346, 2020.
11. O. M. Araz, T-M. Choi, D. L. Olson and F. S. Salman, "Data Analytics for Operational Risk Management", *Decision Sciences*, 51:6, 1316-1319, 2020.
12. D. Shiri, V. Akbari and F. S. Salman, "Online Routing and Scheduling of Search and Rescue Teams", *Operations Research Spectrum*, 42, 755-784, 2020.
13. D. Shiri and F. S. Salman, "Online Optimization of First-responder Routes in Disaster Response Logistics", *IBM Journal of Research and Development*, 64:1, 13:1-13:9, 2020.
14. R. Hassin, R. Ravi, F. S. Salman and D. Segev, "The Approximability of Multiple Facility Location on Directed Networks with Random Arc Failures", *Algorithmica*, 82, 2474-2501, 2020.
15. E. Yucel, F. S. Salman, B. Bozkaya and C. Gokalp, "A Data-driven Optimization Framework for Routing Mobile Medical Facilities", *Annals of Operations Research*, 291:1-2, 1077-1102, 2020.
16. M. Ajam, V. Akbari and F. S. Salman, "Minimizing Latency in Post-disaster Road Clearance Operations", *European Journal of Operational Research*, 277:3, 1098-1112, 2019.
17. S. Raghavan, M. Sahin and F. S. Salman, "The Capacitated Mobile Facility Location Problem", *European Journal of Operational Research*, 277:2, 507-520, 2019.
18. D. Shiri and F. S. Salman, "On the Randomized Online Strategies for the k-Canadian Traveler Problem", *Journal of Combinatorial Optimization*, 38:1, 254-267, 2019.
19. D. Shiri and F. S. Salman, "Competitive Analysis of Randomized Online Strategies for the Multi-agent k-Canadian Traveler Problem", *Journal of Combinatorial Optimization*, 37:3, 848-865, 2019.
20. A. Coskun, W. Elmaghraby, M. Karaman and F. S. Salman, "Relief Aid Stocking Decisions under Bilateral Agency Cooperation", *Socio-Economic Planning Sciences*, 67, 147-165, 2019.
21. M. Mostajabdaveh, W. J. Gutjahr and F. S. Salman, "Inequity-Averse Shelter Location for Disaster Preparedness", *IIE Transactions*, 51:8, 809-829, 2019.
22. C. Urkup, B. Bozkaya and F. S. Salman, "Customer Mobility Signatures and Financial Indicators as Predictors in Product Recommendation", *PLoS One*, 13(7): e0201197, 2018.
23. E. Yucel, F. S. Salman and I. Arsik, "Improving Post-Disaster Road Network Accessibility by Strengthening Links against Failures", *European Journal of Operational Research*, 269:2, 406-422, 2018.
24. R. Hassin, R. Ravi and F. S. Salman, "Multiple Facility Location on a Network with Linear Reliability Order of Edges", *Journal of Combinatorial Optimization*, 34:3, 931-955, 2017.
25. B. Bozkaya, F. S. Salman and K. Telciler, "An Adaptive and Diversified Vehicle Routing Approach to Reducing

the Security Risk of Cash-in-Transit Operations”, *Networks*, 69:3, 256-269, 2017.

26. V. Akbari and F. S. Salman, “Multi-vehicle Prize Collecting Arc Routing for Connectivity Problem”, *Computers and Operations Research*, 82, 52–68, 2017.
27. V. Akbari and F. S. Salman, “Multi-vehicle Synchronized Arc Routing Problem to Restore Post-disaster Network Connectivity”, *European Journal of Operational Research*, 257:2, 625–640, 2017.
28. D. Shiri and F. S. Salman, “On the Online Multi-agent O-D k-Canadian Traveler Problem”, *Journal of Combinatorial Optimization*, 34:2, 453-461, 2017.
29. M. Kasaei and F. S. Salman, “Arc Routing Problems to Restore Connectivity of a Road Network”, *Transportation Research, Part E: Logistics and Transportation Review*, 95, 177–206, 2016.
30. F. S. Salman and E. Yucel, “Emergency Facility Location under Random Network Damage: Insights from the Istanbul Case”, *Computers and Operations Research*, 62, 266-281, 2015.
31. F. S. Salman and S. Gul, “Deployment of Field Hospitals in Mass Casualty Incidents”, *Computers and Industrial Engineering*, 74, 37-51, 2014.
32. D. Aksen, O. Kaya, F. S. Salman and O. Tuncel, “An Adaptive Large Neighborhood Search Algorithm for a Selective and Periodic Inventory Routing Problem”, *European Journal of Operational Research*, 239:2, 413-426, 2014
33. E. L. Ormeci, F. S. Salman and E. Yucel, “Staff Rostering in Call Centers Providing Employee Transportation”, *Omega, The International Journal of Management Science*, 43,41-52, 2014.
34. E. Yucel, F. S. Salman, E. S. Gel, E. L. Ormeci, and A. Gel, “Optimizing Specimen Collection for Processing in Clinical Laboratories”, *European Journal of Operational Research*, 227:3, 503-514, 2013.
35. E. Yucel, F. S. Salman, E. S. Gel, and E. L. Ormeci, “A Constant-factor Approximation Algorithm for Multi-vehicle Collection for Processing Problem”, *Optimization Letters*, 7:7, 1627-1642, 2013.
35. D. Aksen, O. Kaya, F. S. Salman and Y. Akça, “Selective and Periodic Inventory Routing Problem for Waste Vegetable Oil Collection”, *Optimization Letters*, 6:6, 1063-1080, 2012.
36. K. Katterbauer, C. Oguz and F. S. Salman, “Hybrid Adaptive Large Neighborhood Search for the Optimal Statistic Median Problem”, *Computers and Operations Research*, 39:11, 2679-2687, 2012.
37. B. Cesaret, C. Oguz and F. S. Salman, “A Tabu Search Algorithm for Order Acceptance and Scheduling”, *Computers and Operations Research*, 39:6, 1197-1205, 2012.
38. D. Gunnec and F. S. Salman, “Assessing the Reliability and the Expected Performance of a Network Under Disaster Risk”, *OR Spectrum*, 33:3, 499-523, 2011.
39. E. Sancak and F. S. Salman, “Multi-item Dynamic Lot-sizing with Delayed Transportation Policy”, *International Journal of Production Economics*, 131:2, 595-603, 2011.
40. N. Gormez, M. Koksalan, and F. S. Salman, “Locating Disaster Response Facilities in Istanbul”, *Journal of the Operational Research Society*, 62:7, 1239-1252, 2011.
41. N. Tuncbag, F. S. Salman, O. Keskin, A. Gursoy. “Analysis and Network Representation of Hot Spots in Protein Interfaces Using Minimum Cut Trees”, *Proteins: Structure, Function, and Bioinformatics*, 78:10, 2283- 2294, 2010.
42. C. Oguz, F. S. Salman, and Z. B. Yalcin, “Order Acceptance and Scheduling Decisions in Make-to-order Systems”, *International Journal of Production Economics*, 125:1, 200-211, 2010.
43. S. Peeta, F. S. Salman, D. Gunnec, and K. Viswanath, “Pre-disaster Investment Decisions for Strengthening a Highway Network”, *Computers and Operations Research*, 37:10, 1708-1719, 2010.
44. E. Yucel, F. Karaesmen, F. S. Salman, and M. Turkay, “Optimizing Product Assortment Under Customer-driven Demand Substitution”, *European Journal of Operational Research*, 199:3, 759-768, 2009.
45. F. S. Salman, R. Ravi and J. Hooker, “Solving the Capacitated Local Access Network Design Problem”, *INFORMS J. on Computing*, 20:2, 243-254, 2008.
46. B. Saglam, F. S. Salman, S. Sayin, and M. Turkay, “A Mixed-Integer Programming Approach to the Clustering Problem with an Application in Customer Segmentation”, *European Journal of Operational Research*, 173:3, 866-879, 2006.

47. R. Hassin, R. Ravi and F. S. Salman, "Approximation Algorithms for a Capacitated Network Design Problem", *Algorithmica*, 38:3, 417-431, 2004.
48. M. Koksalan and F. S. Salman, "Beer in the Classroom: A Case Study of Location and Distribution Decisions", *INFORMS Transactions on Education*, 4:1, 65-77, 2003.
49. F. S. Salman, J. Kalagnanam, S. Murthy and A. Davenport, "Cooperative Strategies for Solving the Bicriteria Sparse Multiple Knapsack Problem", *Journal of Heuristics*, 8:2, 215-239, 2002.
50. G. Konjevod, R. Ravi and F. S. Salman, "On Approximating Planar Metrics by Tree Metrics", *Information Processing Letters*, 80:4, 213-219, 2001.
51. F. S. Salman, J. Cheriyan, R. Ravi and S. Subramanian, "Approximating the Single-sink Link-Installation Problem in Network Design", *SIAM J. Optimization*, 11:3, 595-610, 2001.
52. M. Dawande, J. Kalagnanam, P. Keskinocak, R. Ravi and F. S. Salman, "Approximation Algorithms for the Multiple Knapsack Problem with Assignment Restrictions", *Journal of Combinatorial Optimization*, 4, 171-186, 2000.

Book Chapters

1. D. Shiri and F. S. Salman, "New Variations of the Online k-Canadian Traveler Problem: Uncertain Costs at Known Locations", *Probability, Combinatorics and Control*, A. Kostogryzov and V. Korolev (Eds.), Intech Open, 2019.
2. S. T. Alışık, D. B. Aksel, A. E. Yantaç, İ. Kayı, F. S. Salman, A. İçduygu, D. Çay, L. Baruh, and I. Bensason, "Seasonal Labor Migration Among Syrian Refugees and Urban Deep Map for Integration in Turkey", *Data for Refugees: The D4R Challenge on Mobility of Syrian Refugees in Turkey*, A. A. Salah, A. Pentland, B. Lepri, E. Letouze, Y. de Montjoye, X. Dong, P. Vinck (Eds.), 305-328, 2019.
3. F. S. Salman, E. Sivaslioglu, B. Memis "Analysis of Mobile Phone Call Data of Istanbul Residents", Chapter 1 in *Geo-Intelligence and Visualization Through Big Data Trends*, B. Bozkaya and V. K. Singh (Eds.), IGI Global, 1-32, 2015.
4. A. N. Asaly and F. S. Salman, "Arc Selection and Routing for Restoration of Network Connectivity after a Disaster", Chapter 8 in *Global Logistics Management*, B. Y. Kara, I. Sabuncuoglu and B. Bidanda (Eds.), CRC Press, 165-194, 2014.

Publications in Refereed Conference/Workshop Proceedings

1. Ö. Güngör, D. Gunec, F. S. Salman and E. Yucel, "Prediction of Migration Paths Using Agent-Based Simulation Modeling: The Case of Syria", *Proceedings of the International Conference on Industrial Engineering and Operations Management Istanbul, Turkey, March 7-10, 2022*.
2. A. D. Gunec, F. S. Salman and E. Yucel, and E. Yucel, "Multi-Period Capacitated Mobile Facility Location Problem with Mobile Demand: Aiding Refugees on the Move", *Proceedings of the 10th International Network Optimization Conference (INOC, full paper), June 8-10, 2022, Aachen, Germany*.
3. A. Cinar, F. S. Salman and B. Bozkaya, "Prioritized Scheduling and Routing for Home Healthcare Services", *Proceedings of the Global Joint Conference on Industrial Engineering and Its Application Areas (GJCIE) 2016, July 14-15, 2016, Istanbul, Turkey*.
4. V. Akbari and F. S. Salman, "A Model-Based Heuristic to the Min Max K-Arc Routing for Connectivity Problem", *Proceedings of SCOR, May 2-4, 2014, Nottingham, UK, 76-88, Open Access Series in Informatics, 2014*.
5. I. Arsik and F. S. Salman, "Modeling Earthquake Vulnerability of Highway Networks", *Electronic Notes in Discrete Mathematics*, 41 (2013) 319-326. *Proceedings of the International Network Optimization Conference (INOC), May 20-22, 2013, Tenerife, Spain*.
6. F. S. Salman, E. Yucel, E. L. Ormeci, and E. S. Gel, "Logistics of Clinical Testing: A Prioritized Bicriteria Heuristic for Collection for Processing Problem", *Proceedings of the International Workshop on Freight*

Transportation and Logistics (ODYSSEUS), May 21-25, 2012, Mykonos, Greece.

7. F. S. Salman, E. Yucel, E. L. Ormeci, and E. S. Gel, "Logistics of Clinical Testing: A Prioritized Bicriteria Heuristic for Collection for Processing Problem", Proceedings of the Conference of EURO Working Group on Vehicle Routing and Logistics Optimization (VeRoLog), June 18-20, 2012, Bologna, Italy.
8. F. S. Salman, E. Yucel, E. L. Ormeci, and E. S. Gel, "Logistics of Clinical Testing: Heuristics for Routing and Scheduling of Specimen Collection", Proceedings of EU/ME 2011: Workshop on Client-centered Logistics and International Aid. February 21-22, 2011, Vienna, Austria.
9. E. Yucel, F. S. Salman, E. L. Ormeci, E. S. Gel, A. Gel, "Logistics of Clinical Testing: Heuristics for Routing and Scheduling of Specimen Collection", Proceedings of the Manufacturing and Service Operations Management Society Annual Conference (MSOM), June 27-29, 2010, Haifa, Israel.
10. M. M. Karaman, W. Elmagrabhy, F. S. Salman, "Relief Aid Stocking Decisions under Cooperation of Emergency Response Agencies", Proceedings of the Manufacturing and Service Operations Management Society Annual Conference (MSOM), June 27-29, 2010, Haifa, Israel.
11. B. Cesaret, C. Oguz and F. S. Salman. "A Tabu Search Algorithm for Order Acceptance and Scheduling", Proceedings of the 12th International Conference on Project Management and Scheduling (PMS), pp. 141-144, April 26-28, 2010, Tours, France.
12. R. Hassin, R. Ravi and F. S. Salman. "Tractable Cases of Facility Location on a Network with a Linear Reliability Order of Links", Proceedings of the European Symposium on Algorithms (ESA), LNCS 5757, pp. 275-276, September 7-9, 2009, Copenhagen, Denmark.
13. S. Gül and F. S. Salman "Post-disaster Casualty Logistics Planning: The İstanbul Case", Proceedings of the International Workshop on Freight Transportation and Logistics (ODYSSEUS), May 26-29, 2009, Cesme, Turkey.
14. S. Peeta, F. S. Salman, L. Du "A Strategic Planning Framework to Enhance Infrastructure Network Survivability and Functionality under Disasters", Proceedings of the International Workshop on Freight Transportation and Logistics (ODYSSEUS), May 26-29, 2009, Cesme, Turkey.
15. A. Gel, E. S. Gel, E. L. Örmeci, F. S. Salman, E. Yücel "Designing Routes to Match Collected Workload with the Processing Capacity", Proceedings of the International Workshop on Freight Transportation and Logistics (ODYSSEUS), May 26-29, 2009, Cesme, Turkey.
16. R. Hassin, R. Ravi and F. S. Salman. "Facility Location on a Network with Unreliable Links", Proceedings of the International Network Optimization Conference (INOC), April 26-29, 2009, Pisa, Italy.
17. V. Dedeoglu, C. Atici, F. S. Salman and M. O. Sunay, "System Optimization for Peer-to-Peer Multi Hop Video Broadcasting in Wireless Ad-Hoc Networks", Proceedings of the IEEE Workshop on Mobile Video Delivery (MoVid), June 23, 2008, Newport Beach, USA.
18. T. Erkan, E. Sancak, E. Yildirim and F. S. Salman, "Manufacturing Parts Sourcing with Delayed Transportation Policy", Proceedings of the IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), pp. 950-954, Dec. 2-4, 2007, Singapore.
19. E. Emil, F. S. Salman, and E. L. Ormeci, "Shift Scheduling in Call Centers with Multiple Skill Sets and Transportation Costs", Proceedings of the IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI), August 27-29, 2007, Philadelphia, USA.
20. Z. Bilginturk, C. Oguz and F. S. Salman, "Order Acceptance and Scheduling Decisions in Make-to-Order Systems", Proceedings of the 3rd Multidisciplinary International Conference on Scheduling: Theory and Application (MISTA), pp. 80-87, August 28-31, 2007, Paris, France.
21. E. Bas, A. M. Tekalp, and F. S. Salman, "Automatic vehicle counting from video for traffic flow analysis", Proceedings of the IEEE Intelligent Vehicles Symposium (IV), pp. 392-397, June 13-15, 2007, Istanbul, Turkey.
22. D. Gunneç and F. S. Salman, "Assessing the Reliability and the Expected Performance of a Network Under Disaster Risk", Proceedings of the International Network Optimization Conference (INOC), April 22-25, 2007, Spa, Belgium.

23. D. Gunneç and F. S. Salman, "A Two-Stage Multi-Criteria Stochastic Programming Model for Location of Emergency Response and Distribution Centers", Proceedings of the International Network Optimization Conference (INOC), April 22-25, 2007, Spa, Belgium.
24. K. Viswanath, S. Peeta, F. S. Salman, and D. Gunneç, "Strengthening the Links of a Stochastic Network for Disaster Response with Applications to Istanbul", Proceedings of the International Conference on Dynamics of Disasters (CCD), October 5-7, 2006, Athens, Greece.
25. K. Vishwanath, S. Peeta and F. S. Salman, "Strengthening the Links of a Network for Disaster Response", Proceedings of Third International Workshop on Freight Transportation and Logistics (ODYSSEUS), May 23-26, 2006, Altea, Spain.
26. E. Yücel, F. Karaesmen, F. S. Salman, and M. Turkyay, "Product assortment under customer-driven demand substitution in retail operations", Proceedings of the International Conference on Information Systems, Logistics and Supply Chain, May 14-17, 2006, Lyon, France.
27. K. Altinkemer, F. S. Salman, and P. Bellur, "Solving the Minimum Energy Broadcasting Problem in Ad Hoc Wireless Networks by Integer Programming", Proceedings of the International Network Optimization Conference (INOC), March 20-23, 2005, Lisbon, Portugal.
28. K. Altinkemer, F. S. Salman, and P. Bellur, "Exact Solution of the Minimum Energy Broadcasting Problem in Ad Hoc Wireless Networks by Integer Programming", Proceedings of the Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks Conference (WiOpt), March 24-26, 2004, Cambridge, UK.
29. N. Garg, R. Khandekar, G. Konjevod, R. Ravi, F. S. Salman, and A. Sinha, "On the integrality gap of a natural formulation of the single-sink buy-at-bulk network design problem", Proceedings of the Eighth Conference on Integer Programming and Combinatorial Optimization (IPCO), pp. 170-184, June 2001, Utrecht, Netherlands.
30. R. Hassin, R. Ravi and F. S. Salman, "Approximation Algorithms for a Capacitated Network Design Problem", Proceedings of the Workshop on Approximation Algorithms (APPROX), LNCS 1913, pp. 167-176, September 2000, Saarbrücken, Germany.
31. F. S. Salman, J. Kalagnanam and S. Murthy, "Cooperative strategies for solving the bicriteria sparse multiple knapsack problem", Proceedings of the 1999 Congress on Evolutionary Computation (CEC 99), Volume: 1, pp.53-60, July 6-9, 1999, Washington D.C., USA.
32. R. Ravi and F. S. Salman, "Approximation Algorithms for the Traveling Purchaser Problem and Its Variants in Network Design", Proceedings of the Seventh European Symposium on Algorithms (ESA), LNCS 1693, pp. 29-40, July 1999, Prague, Czech Republic.
33. F. S. Salman, J. Cheriyan, R. Ravi and S. Subramanian, "Buy-at-bulk network design: approximating the single-sink edge installation problem", Proceedings of the Eighth Annual ACM-SIAM Symposium on Discrete Algorithms (SODA), pp. 619-628, January 1997, New Orleans, USA.

SPONSORED RESEARCH

1. British Council-TUBITAK Research Project (220N017), 2021-2023: Vaccines4All: Fair and Efficient Location, Routing and Allocation Models to Support Large-Scale Vaccination, Principal Investigators: F. S. Salman and S. de Leeuw, Funding: 817,311 TL.
2. UNDP (United Nations Development Program), 2020: EVSAR: A Decision Support System for Home Healthcare Routing and Scheduling, Principal Investigator: F. S. Salman, Funding: 50,000 USD.
3. TUBITAK Research Project, (119M229), 2019-2022: Optimization of Mobile Aid Provision to En Route Refugees, Investigators: D. Günneç, F. S. Salman, E. Yücel, Funding: 347,410 TL.
4. RCUK-TUBITAK Research Project (216M380), 2016-2019: Innovating the Turkish Supply Chain for Services in Humanitarian Aid, Principal Investigators: F. S. Salman and S. de Leeuw, Funding: 771,824 TL.
5. Borusan Logistics Company Research Project, 2016-2017: Optimizing Domestic Freight Operations of a 3PL Carrier in Turkey, Principal Investigator: F. S. Salman, Funding: 54,000 TL.
6. TUBITAK Research Project, (114M373), 2014-2016: Optimization of Arc Routing Decisions in Real-Time for Emergency Route Clearing in Disaster Response, Principal Investigator: F. S. Salman, Funding: 139,695 TL.

7. TUBITAK Research Project, (111M357), 2012-2014: Logistics Planning for Restoring the Connectivity of Highways after a Disaster, Principal Investigator: F. S. Salman, Funding: 93,340 TL.
8. NATO Collaborative Linkage Grant, 2007-2009: Locating Disaster Response Facilities for Effective Distribution of Emergency Supplies, Principal Investigators: F. S. Salman, R. Hassin, R. Ravi. Funding: 10,000 Euro.
9. TUBITAK CAREER AWARD (105M316), 2006-2011: Stochastic Network Optimization Methods with Applications in Disaster Management, Principal Investigator: F. S. Salman, Funding: 228,660 TL.
10. TUBITAK Research Project, (106M175), 2006-2008: Call Center Workforce Planning; Investigators: L. Ormeci, D. Aksen, A. Erdem, F. S. Salman, S. Savas. Funding: 101,114 TL.
11. Istanbul Metropolitan Municipality, 2006-2007: Post-disaster Logistics Planning for the City of Istanbul; Co-investigators: D. Gunec, F. S. Salman. Funding: 15,000 TL.
12. Istanbul Metropolitan Municipality, 2006-2007: Automatic Video Processing for Traffic Data Generation, Co-investigators: A. M. Tekalp, F. S. Salman. Funding: 10,000 TL.
13. KUMPEM, 2004-2006: Vendor Selection under Product Assortment and Inventory Considerations; Co-Principal Investigators: F. Karaesmen, F. S. Salman, M. Türkay; Funding: 19,000.

HONORS AND AWARDS

Outstanding Faculty Award at the College of Engineering, Koç University	2021
Elected to be a Member of the Turkish Science Academy	2021
Microsoft Women Leaders of Technology Competition/Award, Finalist (in top 3)	2021
IBM Faculty Award	2012
IBM Shared University Research Award	2007
TUBITAK Career Award	2006
First Prize, Third Annual INFORMS Case Competition	2002
IBM Corporate Fellowship for doctoral study	8/97-7/99
Doctoral Fellowship, William Larimer Mellon Foundation, GSIA, CMU	8/96-7/97
Fulbright Scholarship for doctoral study	8/95-8/96
Fellowship for graduate study, Bilkent University	9/92-7/95
Fellowship for undergraduate study, Bilkent University	9/88-6/92
H. O. Sabanci Foundation scholarship for undergraduate study	8/89-6/92
Graduated with first rank from Bilkent University, Industrial Engineering, BSc program	6/92
Outstanding Achievement Award of Vehbi Koc Foundation for undergraduate study	8/88
Ranked 20th (200,000 participants) in the nationwide university entrance exam (placement round)	6/88
Ranked 21st (900,000 participants) in the nationwide university entrance exam (elimination round)	2/87

TEACHING EXPERIENCE

College of Engineering, Koç University:

- Instructor**, Mathematical Programming, Fall 14-21, Fall 06; junior-level required course
- Instructor**, Introduction to Optimization Methods, Spring 11, Spring 2018; sophomore-level required course
- Instructor**, Production Planning and Control, Spring 04-16; junior-level required course
- Instructor**, Network Models and Optimization, Fall 03-Fall 11, 14-16, 18-21; graduate-level elective course
- Instructor**, Operations Research Applications, Spring 12, 14-18, 20-21; elective undergraduate course
- Instructor**, Large Scale Systems, Spring 05-10; elective undergraduate course
- Instructor**, Information Systems, Fall 03-11; senior-level required course
- Senior Design Project Supervisor**, 2003-2021
- Senior Design Project Coordinator**, 2020-2021
- Industrial Engineering Seminar Course Coordinator**, Fall 04, Spring 05, Fall 10, Spring 11, Fall 11; graduate-level seminar course
- Independent Study and Special Topics courses**, Data Analytics in Industrial Applications (Fall 2020), Big Data Analytics Applications and Methodology (Spring 20), Electric Vehicle Supply Chain Management (Spring 2018, graduate-level), Humanitarian Logistics (Spring 17), Routing and Scheduling in Logistics Planning (Fall 15, Fall 09, graduate-level), Geographic Information Systems Applications in Retailing (Fall 06),

Mixed Model Assembly Line Balancing (Fall 04)

Krannert School of Management, Purdue University:

Course Coordinator Management Science, Spring 02, Fall 02

Coordinated 6 sections of the required Management Science course in the undergraduate management program.

Instructor, Management Science, Fall 00, Spring 01, Fall 01, Spring 02, Fall 02

Course topics include linear programming, integer programming, network models, decision analysis

Developed teaching material including a case that won the INFORMS Case Competition in 2002.

Received an overall instructor rating of 4.5 out of 5 from students (Spring 02)

Instructor, Seminar in Quantitative Methods, Fall 01, Approximation Algorithms, Spring 02, PhD courses

Tepper School of Business, Carnegie Mellon University:

Instructor, Scheduling and Sequencing, Spring 00, Master of Industrial Administration Program, (MBA)

Developed and taught MBA level elective course; prepared course material that has been included into the educational materials distributed with the textbook by Pinedo and Chao.

Instructor, Production and Operations Management, Summer 99, required course in the undergraduate Business Administration program

Recitation Instructor, Introduction to Operations Research, Spring 97, Dept. of Math. Sciences, undergraduate course

Teaching Assistant, Combinatorial Optimization (undergraduate, Spring 99), Introduction to Operations Research (MBA, Fall 97, Fall 96), Production and Operations Management (undergraduate, Summer 96)

Training, Attended teaching seminars at the Eberly Center for Teaching Excellence

Industrial Engineering Department, Bilkent University, Turkey:

Teaching Assistant, Manufacturing Processes (Spring 93), Applied Linear Algebra (graduate, Fall 94), Production Systems Design (Spring 94, senior-project), Introduction to Modeling and Optimization (Spring 95)

GRADUATE STUDENT ADVISING

Graduated:

Ph.D.

1. Onur Can Saka, Ph.D. in IEOM, 2020, Koc University (advisor)
2. Meraj Ajam, Ph.D. in IEOM, 2019, Koc University (advisor)
3. Ahmet Çınar, Ph.D. in IEOM, 2019, Koc University (advisor)
4. Mahdi Mostajabdaveh, Ph.D. in IEOM, 2019, Koc University (advisor)
5. Davood Shiri, Ph.D. in IEOM, 2019, Koc University (advisor)
6. Vahid Akbari, Ph.D. in IEOM 2016, Koc University (advisor)
7. Eda Yücel, Ph.D. in IEOM 2011, Koc University (advisor)

M.Sc.

1. Baturhan Bayraktar, M.Sc. in IE, 2020, Koc University (advisor)
2. Umut Ermağan, M.Sc. in IE, 2020, Koc University (advisor)
3. Abdullah Coşkun, M.Sc. in IE, 2019, Koc University (advisor)
4. Kaan Telciler, M.Sc. in IE, 2017, Koc University (advisor)
5. Çağan Ürküp, M.Sc. in IE, 2017, Koc University (advisor)
6. Maziar Kasaei Roodsari, M.Sc. in IE, 2015, Koc University (advisor)
7. İdil Arşık, M.Sc. in IE, 2013, Koc University (advisor)
8. Ayşe Nur Kibar, M.Sc. in IE, 2013, Koc University (advisor)
9. Özge Tuncel, M.Sc. in IE, 2013, Koc University (advisor)
10. Yeliz Akca, M.Sc. in IE, 2011, Koc University (co-advisor)
11. Selin Özdingç, M.Sc. in IE, 2011, Koc University (advisor)

12. Emin Tanrıöven, M.Sc. in IE, 2010, Koc University (advisor)
13. Bahriye Cesaret, M.Sc. in IE, 2010, Koc University (co-advisor)
14. Emre Sancak, M.Sc. in IE, 2009, Koc University (advisor)
15. Müge Karaman, M.Sc. in CMSE, 2009, Koc University (advisor)
16. Sezer Gül, M.Sc. in IE, 2008, Koc University (advisor)
17. Dilek Günneç, M.Sc. in IE, 2007, Koc University (advisor)
18. Zehra Bilgintürk, M.Sc. in IE, 2007, Koc University (co-advisor)
19. Eda Yücel, M.Sc. in IE, 2006, Koc University (co-advisor)
20. Burcu Sağlam, M.Sc. in IE, 2005, Koc University (co-advisor)

Ongoing:

1. Amirreza Pashapour, Ph.D. in IEOM, Koc University (advisor)
2. Mert Parçaoğlu, M.Sc. in IE, expected 2022, Koc University (advisor)
3. Özlem Güngör, M.Sc. in IE, expected 2022, Koc University (advisor)
4. Parinaz Kiavash, Ph.D. in IEOM, Koc University (advisor)
5. Mina Bornasi, Ph.D. in IEOM, Koc University (advisor)
6. Hamed Vosoughian, M.Sc. in IE, expected 2023, Koc University (advisor)

PROFESSIONAL ACTIVITIES AND SERVICE

Editorial Positions:

Department Editor for Operations Research Spectrum (2021-current), Associate Editor for OMEGA (The International Journal of Management Science) , Associate Editor for Sustainable Analytics and Modeling (2021-current), Associate Editor for Socio-Economic Planning Sciences (2021-current), editorial board member for European Journal of Operational Research (2022-current), Computers and Operations Research (2014-2016), Production and Operations Management (2015-current), Resilience Findings (2021-current).

Special Issue Editing:

Decision Sciences, Title: Data Analytics for Operational Risk Management, (2019-2020), with co-editors Ozgur Araz, Tsan-Ming Choi and David Olson.

Journal Referee (Reviewer):

Operations Research, Management Science, Informs Journal on Computing, Transportation Science, SIAM J. on Discrete Mathematics, IIEE Transactions, European Journal of Operational Research, Computers and Operations Research, Naval Research Logistics, Transportation Research Part B and Part E, Optimization and Engineering, Telecommunication Systems, 4OR, International J. of Operations and Quantitative Management, Journal of Infrastructure Systems, Journal of Discrete Algorithms, Theoretical Computer Science, Annals of Operations Research, Optimization Letters, International Journal of Production Economics, Socio-Economic Planning Sciences, OMEGA - The International Journal of Management Science, Applied Mathematical Modeling, INFOR: Information Systems and Operational Research, IATSS Research, Surveys in Operations Research and Management Science, Journal of Operational Research Society, Journal of Industrial Management and Optimization, European Journal of Industrial Engineering, Computers and Industrial Engineering, IEEE Intelligent Transportation Systems, Journal of Humanitarian Logistics and Supply Chain Management, Natural Hazards, Journal of Industrial Management Optimization, OR Spectrum (received outstanding reviewer award in 2019 and 2020).

Conference Referee (Reviewer):

Winter Simulation Conference, 2010; SAVTEK, Turkish Defense Technologies Conference, 2010; Fourth International Workshop on Freight Transportation and Logistics, ODYSSEUS 2009; International Network Optimization Conference INOC 2009; IEEE International Conference on Service Operations and Logistics, and Informatics, SOLI 2007; Management and Service Operations Management, MSOM 2006; First International Conference on Computer, Communications and Signal Processing 2005; ACM-SIAM Symposium on Discrete Algorithms, SODA 2003.

Project Proposal Reviewer/Panelist:

Turkish Science and Technology Council (TUBITAK,) Israel Science Foundation, Istanbul Municipality.

Judge/Jury Member:

Judge for the POMS College of Humanitarian Operations and Logistics, Best Paper Award 2021, 2019; the YAEM Conference 2018 Industry Project Competition; 2012 INFORMS Student Paper Competition; YAEM Conference 2009 Student Paper Competition; Bilkent Student Project Competition 2009 and 2012; YAEM Conference 2005 Student Paper Competition Coordinator; INFORMS Case Competition 2003.

Positions in Professional Societies:

Coordinator and Co-founder of EURO Working Group on Humanitarian Operations (2015-2017), (2022-current).

Coordinator and Co-founder of the Turkish Working Group on Humanitarian and Health Operations, and Sustainability (TR-HOPES (2022-current)).

Founding committee member of EURO WISDOM (Women in Society Doing Operational Research and Management Science) Forum (2019-current).

Invited Talks/Seminars:

EURO Verolog Webinar on Logistics, 2022; Amirkabir University (Tahran Polytechnic), 2022; Middle East Technical University, 2021; Technical University Delft, 2019; Koç University, 2018; Bilkent University, 2017; Vrei University, 2015; University of Vienna, 2015; University of Maryland, Civil Engineering Dept., Sponsored Seminar Series, 2013; Arizona State University, 2013; Sabanci University, 2012; Bilkent University 2012; Metropolitan Planning Department, Istanbul Municipality, 2008; Department of Operations Research and Statistics, Tel Aviv University, 2007; Industrial Engineering Department, Galatasaray University, 2007 and 2010; Industrial Engineering Department, Eastern Mediterranean University, 2006; Industrial Engineering Department, Bilkent University, 2006; Industrial Engineering Department, Bogazici University, 2004 and 2009; Faculty of Engineering and Natural Sciences, Sabanci University, 2004; Industrial Engineering Department, Middle East Technical University, 2003; Industrial Engineering Department, Koc University, 2003; Mechanical and Industrial Engineering Department, University of Toronto, 2003; Department of Industrial Engineering and Operations Research, University of California, Berkeley, 2001; School of Industrial and Systems Engineering, Georgia Institute of Technology, 2000; Department of Systems Engineering, University of Pennsylvania, 2000.

Outreach Activities/Panels:

Kızılay Akademi (Turkish Red Crescent Academy), Panel member, Panel on Disaster Management, 2022; Beylikdüzü Municipality, Panel member, Panel on Disaster and Health Emergency Operations Management, 2019; YAEM Conference Yıldız Teknik University, Panel moderator, Conference Panel on Disaster Management in Istanbul and Turkey, 2017; Global Logistics Services, International Federation of Red Cross and Red Crescent Societies, Geneva 2012; Metropolitan Planning Department, Istanbul Municipality, 2008; Emergency Department of Istanbul Municipality 2007; Traffic Coordination Directorate of the Istanbul Municipality, 2006; Disaster Coordination Center of Istanbul, Istanbul Municipality, 2005; Bosphorus University, Earthquake Engineering and Disaster Management Center, 2004.

Conference/Workshop Program Committees:

Second International Disaster Management Conference 2021, Sept. 24-25, 2021, Burdur, Turkey, scientific program committee member.

EURO Conference 2018, Valencia, Spain, scientific program committee member.

YAEM 2018, National Operations Research/Industrial Engineering Congress, Anadolu University, Eskişehir, Turkey, scientific program committee member.

International IIE (Institute of Industrial Engineers) Conference, 2013, Istanbul, Turkey, scientific program committee member.

YAEM 2012, National Operations Research/Industrial Engineering Congress, Dogus University, Istanbul, Turkey, scientific program committee member.

Conference/Workshop Organization Committees:

EURO Hope Mini-conference 2022, October 6-7, 2022 (hybrid), Istanbul.

EURO Hope the First Summer School on Humanitarian Logistics 2021, July 1-3, 2021 (online).

ODYSSEUS 2009, The Fourth International Workshop on Freight Transportation and Logistics, May 2009, Cesme, Turkey.

MAPSP 2007, The 8th Workshop on Models and Algorithms for Planning and Scheduling Problems, Koc University, Istanbul, Turkey, July 2-6, 2007.

YA/EM 2005, The Twenty Fifth National Operations Research/Industrial Engineering Congress, Koc University, Istanbul, Turkey, July 4-6, 2005.

Memberships in Professional Organizations:

(INFORMS), Production and Operations Management Society (POMS), Association of European Operational Research Societies (EURO), Yöneylem Araştırması Derneği (YAD).

Conference Presentations:

1. EURO 2021: 31st Annual Conference on Operational Research, July 11-14, 2021, Athens, Greece. "Logistics Planning of Cash Transfer to Syrian Refugees in Turkey", with R. Kian, G. Erdogan, S. De Leeuw, E. Sabet, B. Y. Kara and M. H. Demir.
2. ORAHS 2020: 46th Annual Meeting of the EURO Working Group on Operational Research in Health Care (e-conference), July 27-31, 2020, Vienna, Austria. "Prioritized Routing and Scheduling for Home Healthcare Services: Static and Dynamic Optimization", with A. Cinar, O. Araz and B. Bozkaya.
3. EURO 2019: 30th European Conference on Operational Research, June 23-26, 2019, Dublin, Ireland. "Modeling Mobile Health Service Delivery to Syrian Migrant Farm Workers using Call Record Data", with S. Turper-Alisik, A. Coskun, I. Kayi and E. Yucel.
4. CPAIOR 2019: 16th International Conference on the Integration of Constraint Programming, Artificial Intelligence and Operations Research, June 4-7, 2019, Thessaloniki, Greece. Invited for the Master Class. "Modeling Equity in Disaster Management: Inequity-Averse Shelter Location for Disaster Preparedness", with W. Gutjahr and M. Mostajabdaveh.
5. POMS 2019: 30th Annual Conference of Production and Operations Management Society, May 2-6, 2019, Washington D.C., USA. "Logistics Planning of Cash Transfer: The Case of Syrian Refugees in Turkey", with S. De Leeuw et al.
6. INFORMS 2018: Annual Meeting, November 4-7, 2018, Phoenix, USA. "Inequity-averse Shelter Location for Disaster Preparedness", with M. Mostajabdaveh and W. Gutjahr.
7. EURO 2018: 29th European Conference on Operational Research, July 8-11, 2018, Valencia, Spain. "A Data-driven Model for Routing Mobile Medical Facilities", with E. Yucel, B. Bozkaya and C. Gokalp.
8. YAEM 2018: National Meeting, June 26-29, 2017, Anadolu University, Eskisehir, Turkey. "Optimizing the Routing of Mobile Medical Facilities", with E. Yucel, B. Bozkaya and C. Gokalp.
9. VeRoLog 2017: Conference of EURO Working Group on Vehicle Routing and Logistics Optimization, July 10-12, 2017, Amsterdam, Holland, "Prioritized Routing and Scheduling for Home Healthcare Services", with A. Çınar and B. Bozkaya.
10. HOpe 2017: Mini-conference of EURO Working Group on Humanitarian Operations, June 29-30, 2017, Vienna, Austria, "Planning and Distribution in Cash-based Intervention Programs".
11. YAEM 2017: National Meeting, July 5-7, 2017, YTU, Istanbul. "The Role of Operations Research/Industrial Engineering in Disaster and Emergency Management", panel moderator and speaker.
12. WARP2 2016: Workshop on Arc Routing Problems, May 22-24, 2016, Lisbon, Portugal, "Multi-Vehicle Synchronized Prize Collecting Arc Routing for Connectivity Problem", with V. Akbari.
13. EURO 2016: European Conference on Operational Research, July 3-6, 2016, Poznan, Poland, "An Optimal Strategy for the Online Multi-agent k-Canadian Traveler Problem on Edge-disjoint Graphs", with D. Shiri.
14. ISMP 2015: International Mathematical Programming Symposium, July 12-17, 2015, Pittsburgh, USA, "Multi-Vehicle Arc Routing for Connectivity Problem", with V. Akbari.
15. YAEM 2015: National Meeting, September 9-11, 2015, METU, Ankara. "A Prize-Collecting Arc Routing for Connectivity Problem to Open Emergency Routes After a Disaster", with Maziar Kasaei.

16. ISOLDE 2014: International Symposium on Locational Decisions, June, 2014, Napoli-Capri, Italy. "Arc Routing for Connectivity in Disaster Response", with V. Akbari.
17. INFORMS 2013: Annual Meeting, October 6-9, 2013, Minneapolis, USA. "Restoration of Road Network Connectivity After a Disaster", with A. N. Asaly.
18. YAEM 2012: National Meeting, June 20- July 22, 2012, Dogus University, Istanbul. "Locating Emergency Response Facilities in Istanbul ", with S. Özding and E. Yücel.
19. VeRoLog 2012: Conference of EURO Working Group on Vehicle Routing and Logistics Optimization, June 18-20, 2012, Bologna, Italy. "Logistics of Clinical Testing: A Prioritized Bicriteria Heuristic for Collection for Processing Problem", with E.Yücel, E. L.Örmeci and E. S. Gel.
20. EU/ME Workshop 2011: Client-centered Logistics and International Aid, Feb. 21-22, 2011, Vienna, Austria. "Logistics of Clinical Testing: Heuristics for Routing and Scheduling of Specimen Collection", with E.Yücel, E. L.Örmeci and E. S. Gel.
21. EURO 2010 Conference, July 11-14, 2010, Lisbon, Portugal. "Locating Emergency Response Facilities on a Network with a Linear Reliability Order of Links", with R. Hassin and R. Ravi.
22. YAEM 2010: National Meeting, June 30- July 2, 2010, Sabancı University, Istanbul. "An Assessment of the Emergency Medical Response System of Istanbul after a Possible Earthquake ", with E. A. Tanrıöven and E. S. Gel.
23. YAEM 2009: National Meeting, June 22-24, 2009, Bilkent University, Ankara. "Multi-item Dynamic Lot-sizing with Delayed Transportation Policy", with E. Sancak.
24. ESA 2009, European Symposium on Algorithms, September 7-9 2009, Copenhagen, Denmark. "Tractable Cases of Facility Location on a Network with a Linear Reliability Order of Links", with R. Hassin and R. Ravi.
25. ODYSSEUS 2009, Fourth International Workshop on Freight Transportation and Logistics, May 26-29 2009, Cesme, Turkey. "Post-disaster Casualty Logistics Planning: The Istanbul Case", with S. Gül.
26. INOC 2009, International Network Optimization Conference, April 26-29, 2009, Pisa, Italy. "Facility Location on a Network with Unreliable Links", with R. Hassin and R. Ravi.
27. INFORMS Telecommunications Conference, March 27-29, 2008. University of Maryland, College Park, MD. "System Optimization for Broadcasting in Ad Hoc Wireless Networks", with C. Atici, V. Dedeoglu, and M. O. Sunay.
28. SOLI 2007, IEEE International Conference on Service Operations and Logistics, and Informatics, Philadelphia, August 27-29, 2007. "Shift Scheduling in Call Centers with Multiple Skill Sets and Transportation Costs", with E. Emil, and E. L. Ormeci.
29. INOC 2007, International Network Optimization Conference, Spa, Belgium, April 22-25, 2007. "Assessing the Performance and Reliability of a Network under Disaster Risk", with D. Gunnec.
30. INFORMS Annual Meeting 2006, Pittsburgh, USA. "Assortment Planning and Supplier Selection under Demand Substitution in Retail Operations" with E. Yucel, F. Karaesmen and M. Turkey.
31. CDD 2006, International Conference on Dynamics of Disasters, Mati, Athens, October 5-7, 2006. "Disaster Management: Strengthening the Links of a Network for Disaster Response", with D. Gunnec, K. Viswanath and S. Peeta.
32. ODYSSEUS 2006 Conference, Third International Workshop on Freight Transportation and Logistics, May 23-26, 2006, Altea, Spain. "Strengthening the Links of a Network for Disaster Response" with K. Viswanath and S. Peeta.
33. EURO 2004 Conference, Rhodes, Greece, "Energy Efficient Broadcasting in Ad Hoc Wireless Networks", with K. Altinkemer and P. Bellur, July 4-7, 2004.
34. INFORMS Annual Meeting 2002, San Jose, "A Case Study of Location and Distribution Decisions at Anadolu Efes" with M. Koksalan.
35. INFORMS International Conference, Maui, Hawaii, June 17-20, 2001. "Search by Objective Relaxation for the LAN Design Problem", with R. Ravi and J. Hooker.
36. INFORMS Annual Meeting 1999, Philadelphia, "Cooperative Strategies for Solving the Bicriteria Sparse Knapsack Problem", with J. Kalagnanam and Sesh Murty.
37. INFORMS Annual Meeting 1999, Philadelphia, "Approximation Algorithms for the Multiple Knapsack Problem with Assignment Restrictions", with P. Keskinocak, M. Dawande and J. Kalagnanam.
38. ESA European Symposium on Algorithms, "Approximation Algorithms for the Traveling Purchaser Problem and Its Variants in Network Design", with R. Ravi, Prague, 1999.
39. INFORMS National Meeting, Montreal, Spring 1998. "Heuristics for the Bicriteria Sparse Multiple Knapsack Problem", with J. Kalagnanam and, S. Murthy.

40. INFORMS National Meeting, "Analysis of a General Class of Discrete Optimization Problems with Parametric Righthand Sides", with B. C. Tansel, Seattle, Fall 1998.
41. INFORMS National Meeting, "A Survey of Parametric and Sensitivity Analysis in Combinatorial Optimization", with B. C. Tansel and M. H. Demir, San Diego, Spring 1997.
42. INFORMS National Meeting, "Parametric Multimedial Location on Networks", with B. C. Tansel, New Orleans, Fall 1995. Also presented at the National Meeting of the Operational Research Society of Turkey, YAEM, Ankara, 1994 (in Turkish).

LANGUAGES

Turkish	Native
English	Advanced
German	Basic