CURRICULUM VITAE
Dr. M. Murat Köksalan

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Personal Data:

Citizen of: Turkey
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Address: Ross School of Business, University of Michigan, Ann Arbor
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Education:

- State University of New York at Buffalo, Department of Industrial Engineering (IE) (1980-1984), Ph.D.
- Middle East Technical University (METU), Department of IE (1979-1980), M.Sc.
- METU, Department of IE (1974-1979), B.Sc.

Professional Experience:

- Visiting Professor and Lecturer, Ross School of Business, University of Michigan (2018-), Ann Arbor, MI, USA.
- Visiting Professor, McDonough School of Business, Georgetown University (2017-2018), Washington, DC, USA.
- Department Chair, Department of IE, METU (February 2013 – July 2017), Ankara, Turkey.
- Professor (1993 - 2018), Associate Professor (1987 - 1993), Assistant Professor (1984 - 1987), Department of IE, METU, Ankara, Turkey.
- Associate Chair, Department of IE, METU (1987 - 1990 and 1997 - 1999), Ankara, Turkey.
- Visiting Professor, Krannert School of Management, Purdue University, West Lafayette, Indiana, U.S.A. (Aug. 2000-July 2002, Jan. 1995-July 1996 and Aug. 1990- Aug. 1991).
- Visiting Professor, Helsinki School of Economics, (Jan. 2000, Sep. 2002, Jan. 2003, Feb. 2003, Feb. 2004, Feb. 2005, Sep. 2005, Sep. 2006, Sep. 2007, March 2010-June 2010).
- Visiting Professor, Helsinki University of Technology (July-August 2006, September 2009-March 2010).
- Visiting Professor, Aalto University, School of Economics (March 2010-July 2011).
- Visiting Professor, Department of IE, SUNY at Buffalo, Buffalo, New York, U.S.A. (1983 – 1984)
- Teaching Assistant, Department of IE, METU (1979 - 1980), Ankara, Turkey.
- Research Assistant, System Sciences Research Institute, METU (1979), Ankara, Turkey.

Teaching Experience:

2018-   University of Michigan, Ann Arbor, Ross School of Business, TO 301 Business Analytics and Statistics, TO 425 Analytical Problem Solving with

Spreadsheets, MBAn 558 Prescriptive Analytics, MBAn 600 Business Analytics Consulting Studio.

2017-2018   Georgetown University, McDonough School of Business, OPIM 172 Statistical Models for Business, BADM 580 Analytical Problem Solving

2010-2011   Aalto University, School of Economics, Tools for Business Decisions 2 School of Technology, Managerial Economics

Aug.-Sep. 2006, Helsinki University of Technology
        Multiobjective Decision Making

Jan. 2000, Sep. 2002, Jan. 2003, Feb. 2003, Feb. 2004, Feb. 2005, Sep. 2005, Sep. 2006, Sep.2007, Helsinki School of Economics, Quantitative Methods (courses taught in the Full Time and Part Time MBA programs)

1990-'91, 1995-'96, 2000 – 2002, Purdue University
        MGMT 305 Business Statistics, MGMT 306 Management Science, MGMT 676 Seminar in Management Science, MGMT 670 Quantitative Methods I, MGMT 671 Quantitative Methods II.

1983 - 1984   SUNY at Buffalo
        IE 460 Decision Analysis and Multiple Criteria Decision Making, IE 677 Network Optimization, IE 580 Advanced Simulation, IE 374 Probabilistic Models in OR

1979 – 1980, 1984 - 2017, Middle East Technical University
        IE 428 Systems Design, IE 471 Simulation, IE 571 Systems Simulation, IE 553 Linear Optimization, IE 451 Decision Analysis, OR 508 Models and Techniques of Operations Research, IE 558 Multiobjective Decision Making, IE 351 Introduction to Operations Research I, IE 352 Introduction to Operations Research II, IE 262 Introduction to Statistics I, IE 690 Graduate Seminar in IE (Heuristic Search), IE 690 Graduate Seminar in IE (Multiobjective Evolutionary Optimization), IE 690 Graduate Seminar in IE Behavioral Aspects of Decision Making, OR 690 Graduate Seminar in OR Preference-Based Multi-objective Evolutionary Search, EM 725 Behavioral Decision Analysis, IE 568 Statistical Applications in Engineering.

Awards:

- Received the Siwei Cheng Award in Quantitative Management presented by the International Academy of Information Technology and Quantitative Management (given "to a person who devoted genius effort to applying quantitative methods and information technology to solve management problems") in 2022.
- Ph. D. student Gokhan Ceyhan, co-advised by Murat Köksalan was a finalist for the "Best MCDM doctoral dissertation" award at the 26th International Conference of the International Society on MCDM held in Portsmouth, UK in June 2022.
- His lecture *Biases in Decision Making* was voted *the best lecture of the 12th MCDA/M Summer School* by the students in Recife, Brazil, July 2016.
- Won the *Educator of the Year in the Middle East Technical University award* from the Parlar Foundation for the 2014-2015 academic year.
- Received the *Science Award* from the Parlar Foundation in 2011.

- Murat Köksalan's PhD student Özgür Özpeynirci won the "Best MCDM doctoral dissertation" award given by the International Society on MCDM in 2011.
- Won the *Educator of the Year in the Middle East Technical University award* from the Parlar Foundation for the 2008-2009 academic year.
- Received the highest honor of the International Society on Multiple Criteria Decision Making: *The MCDM Gold Medal* in 2006.
- Won the first prize in the 2012 INFORMS Case competition (joint work with G. Ceyhan, S. Gürel, G. Köksal, S. Mutlu, and Ş. Yıldız,).
- Won the first prize in the 2007 INFORMS Case competition (joint work with Selin Bilgin and Haldun Süral).
- Won the first prize in the 2006 INFORMS Case competition (joint work with Sakine Batun).
- Won the first prize in the 2002 INFORMS Case competition (joint work with Sibel Salman).
- Has been a Distinguished Core Teacher at the Krannert Graduate School of Management (2002).
- Received the MCDM Conference Chairmanship Award (July 2000).
- Cited for high academic achievement by the Middle East Technical University for the periods 1999-2001, 2001-2003, 2003-2005, 2005-2007, 2006-2008, 2007-2009, and 2008-2010, 2012-2014, 2013-2015, 2014-2016.
- Won a High Academic Achievement Award from the Middle East Technical University for 1999.
- Won the Young Investigator Award from TÜBİTAK (Scientific and Technical Research Council of Turkey) in 1992.
- Had a Fulbright scholarship during his Ph. D. study (1980-1984).

Manuscripts under Review:

1. Öztürk, Tezcaner D. and Köksalan, M. "Biobjective Route Planning of Unmanned Air Vehicles in Continuous Terrain," Second round, *Transportation Research Part B*.
2. Karabay, N., Köksalan, M., and Ozturk, D. T. "Approaches for Biobjective Routing of UAVs in Continuous Terrain with Moving Targets," Second round, *OR Spectrum*.

Publications in Refereed Journals:

1. Ceyhan, G., Köksalan, M., and Lokman, B., "Finding the nondominated set and efficient integer vectors for a class of three-objective mixed-integer linear programs," forthcoming, *Management Science*.
2. Karakaya, G. and Köksalan, M. "Finding preferred solutions under weighted Tchebycheff preference functions for multi-objective integer programs," forthcoming, *European Journal of Operational Research*.
3. Dasdemir, E., Batta, R., Köksalan, M., and Ozturk, D. T. "UAV Routing for Reconnaissance Mission: A Multi-Objective Orienteering Problem with Time-dependent Prizes and Multiple Connections," *Computers and Operations Research,* v 145. 105882, 2022.

4. Ceyhan, G., Köksalan, M., and Lokman, B., "Extensions for Benders cuts and new valid cuts for solving the European day-ahead electricity market clearing problem efficiently," *European Journal of Operational Research,* v. 300, 713-726, 2022.
5. Dogan, I., Lokman, B., and Köksalan, M., "Representing the Nondominated Set in Multi-objective Mixed-integer Programs," *European Journal of Operational Research,* v. 296, 804-818, 2022.
6. Karakaya, G. and Köksalan, M., "Evaluating solutions and solution sets under multiple objectives," *European Journal of Operational Research,* 294, 16-28, 2021.
7. Karakaya, G. and Köksalan, M., "Interactive Approaches for Bi-Objective Problems with Progressively-Changing Solution Sets," *International Transactions in Operational Research,* 28, 356-375, 2021.
8. Ozturk, D.T and Köksalan, M. "An interactive algorithm for multiobjective ranking for underlying linear and quasiconcave value functions," *International Transactions in Operational Research,* 28 (6), 3513-3535, 2021.
9. Dasdemir, E., Köksalan, M., and Ozturk, D. T. "A Flexible Reference Point-Based Multi-objective Evolutionary Algorithm: An Application to the UAV Route Planning Problem," *Computers and Operations Research*, 114, 104811, 2020.
10. Ozarik, S.S, Lokman, B., Köksalan, M. "Distribution based representative sets for multi-objective Integer programs," *European Journal of Operational Research,* 284, 632-643, 2020.
11. Karakaya, G. and Köksalan, M. "Estimating the form of a decision maker's preference function and converging towards preferred solutions," *IISE Transactions*, 52 (6), 651-664, 2020.
12. Lokman, B. and Köksalan, M., "Identifying preferred solutions in multi-objective combinatorial optimization problems," *Turkish Journal of Electrical Engineering and Computer Sciences,* 27 (3), 1970-1981, 2019.
13. Ceyhan, G., Lokman, B., and Köksalan, M., "Finding a Representative Nondominated Set for Multi-objective Mixed Integer Programs," *European Journal of Operational Research,* 272, 61-77, 2019.
14. Lokman, B., Köksalan, M., Korhonen, P. J., and Wallenius, J. "An Interactive Approximation Algorithm for Multi-objective Integer Programs," *Computers & Operations Research,* 96, 80-90, 2018.
15. Özmen, M., Karakaya, G., and Köksalan, M. "Interactive Evolutionary Approaches to Multi-Objective Feature Selection," *International Transactions on Operational Research,* 25, 3, 1027-1052, 2018.
16. Karakaya, G., Köksalan, M., and Ahipasaoglu, S. D. "Interactive Algorithms for a Broad Underlying Family of Preference Functions," *European Journal of Operational Research,* 265, 1, 248-262, 2018.
17. Köksalan, M. and Öztürk, Tezcaner D. "An evolutionary approach to generalized biobjective traveling salesperson problem," *Computers and Operations Research*, 79, 304-313, 2017.
18. M. Köksalan, M., Mousseau, V., and Özpeynirci, S. "Multi-Criteria Sorting with Category Size Restrictions," *International Journal of Information Technology & Decision Making*, 16, 1, 5-23, 2017.
19. Öztürk, Tezcaner D. and Köksalan, M. "An interactive approach for biobjective integer programs under quasiconvex preference functions," *Annals of OR,* 244, 2, 677-696, 2016.

20. Karakaya, G. and Köksalan, M., "An interactive approach for Bi-attribute multi-item auctions," *Annals of Operations Research*, 245, 97-119, 2016.
21. Köksalan, M. and Şakar, C. T. "An interactive approach to stochastic programming-based portfolio optimization," *Annals of Operations Research*, 245, 47-66, 2016.
22. Lokman, B., Köksalan, M., Korhonen, P. J., and Wallenius, J., "An Interactive Algorithm to Find the Most Preferred Solution of Multi-objective Integer Programs," *Annals of Operations Research*, 245, 67-95, 2016.
23. Ravaja, J. N., Korhonen, P., Köksalan, M., Lipsanen, J. O., Salminen, M., Somervuori, O. and Wallenius, J. "Emotional-motivational responses predicting choices: The role of asymmetrical frontal cortical activity," *Journal of Economic Psychology*, 52, 56-70, 2016.
24. Marquis, J., Gel, E., Fowler, J., Köksalan, M., Korhonen, P., and Wallenius, J. "Impact of Number of Interactions, Different Interaction Patterns, and Human Inconsistencies on Some Hybrid Evolutionary Multiobjective Optimization Algorithms," *Decision Sciences* 46, 5, 981-1006, 2015.
25. Köksalan, M. and Lokman, B. "Finding Nadir Points in Multi-objective Integer Programs," *Journal of Global Optimization*, 62: 55–77, 2015.
26. Özmen, M., Tunç, S., Yıldırım, S., Yağız, G., Yıldız, E., Köksalan, M., Gürel, S. "Merkezi Vezne Yer Seçimi ve ATM Envanter Yönetim Politikaları ile Nakit Yönetimi Sistemi Optimizasyonu," Endüstri Mühendisliği 26, 2, 4-20, 2015.
27. Ulu, C. and Köksalan, M., "An interactive approach to multicriteria sorting for quasiconcave value functions," *Naval Research Logistics*, 61: 447–457, 2014.
28. Köksalan, M. and Karakaya, G., "An Evolutionary Algorithm for Finding Efficient Solutions in Multi-attribute Auctions," *International Journal of Information Technology & Decision Making*, 13 (3), 649-673, 2014.
29. Dehnokhalaji, A., Korhonen, P. J., Köksalan, M., Nasrabadi, N., Öztürk, D. T., and Wallenius, J., "Constructing a Strict Total Order for Alternatives Characterized by Multiple Criteria: An Extension," *Naval Research Logistics*, 61 (2), 155-163, 2014.
30. Lokman, B. and Köksalan, M., "Finding Highly Preferred Points for Multi-objective Integer Programs," *IIE Transactions*, 46, 11, 1181-1195, 2014.
31. Şakar, C. T. and Köksalan, M. "Effects of Multiple Criteria on Portfolio Optimization," *IJITDM*, 13, 1, 77-99, 2014.
32. Karasakal, E. and Köksalan, M., "An Interactive Partitioning Approach for Multiobjective Decision Making Under a General Monotone Utility Function," *IJTDM*, 12, 5, 969-997, 2013.
33. Şakar, C. T. and Köksalan, M. "A Stochastic Programming Approach to Multicriteria Portfolio Optimization", *Journal of Global Optimization*, 57, 299-314, 2013.
34. Köksalan, M., Wallenius, J., and Zionts, S., "An Early History of Multiple Criteria Decision Making," *Journal of Multi-criteria Decision Analysis*, 20, 87–94, 2013.
35. Bugdaci, A., Köksalan, M., Özpeynirci, S., and Serin, Y. "An Interactive Probabilistic Approach to Multi-Criteria Sorting," *IIE Transactions*, 45, 1048-1058, 2013.
36. Lokman, B. and Köksalan, M., "Finding all Nondominated Points of Multi-objective

Integer Programs," *Journal of Global Optimization*, 57: 347–365, 2013.

37. Güllü, R. and Köksalan, M. "A model for Performance Evaluation and Stock Optimization in a Kit Management Problem," *International Journal of Production Economics*, 143, 527-535, 2013.

38. Çelik, T. Y., E. Doğan, E. Sanci, H. Türeci, M. Köksalan, S. Gürel, "Bankamatik Kasalarinin Nakit Yönetimi," *Endüstri Mühendisliği Dergisi*, 24 (3-4), 16-28, 2013.

39. Balibek, E. and Köksalan, M., "A Visual Interactive Approach for Scenario Based Stochastic Multi-Objective Problems and an Application," *Journal of Operational Research Society,* 63, 1773-1787, (December) 2012.

40. Lee, D., Kim, K., and Köksalan, M. "An Interactive Method to Multiresponse Surface Optimization Based on Pairwise Comparisons," *IIE Transactions,* 44, 1, 13-26, 2012.

41. Tezcaner, D. and Köksalan, M. "An Interactive Algorithm for Multi-objective Route Planning," *J Optim Theory Appl,* 150, 379–394, 2011.

42. Lee, D., Kim, K., and Köksalan, M. "A Posterior Preference Articulation Approach to Multiresponse Surface Optimization," *European Journal of Operational Research,* 210, 301-309, 2011.

43. Karakaya, G. and Köksalan, M. "An Interactive Approach for Multi-Attribute Auctions," *Decision Support Systems*, 51, 299–306, 2011.

44. Dehnokhalaji, A., Korhonen, P., Köksalan, M., Nasrabadi, N. and Wallenius, J. "Convex Cone-Based Partial Order for Multiple Criteria Alternatives," *Decision Support Systems*, 51, 256-261, 2011.

45. Görmez, N., Köksalan, M., and Salman, S. "Locating Disaster Response Facilities in Istanbul," *Journal of Operational Research Society*, 62, 1239–1252, 2011.

46. Özpeynirci, Ö. and Köksalan, M., "An Exact Algorithm for Finding Extreme Supported Nondominated Points of Multiobjective Mixed Integer Programming Problems," *Management Science*, 56, 2302-2315, 2010.

47. Bozkurt, B., Fowler, J. W., Gel, E. S., Kim, B., Köksalan, M., and Wallenius, J. "Quantitative Comparison of Approximate Solution Sets for Multi-Criteria Optimization Problems with Weighted Tchebycheff Preference Function," *Operations Research* 58 (3), 650-659, 2010.

48. Deb, K. and Köksalan, M. "Guest Editorial Special Issue on Preference-Based Multiobjective Evolutionary Algorithms," *IEEE Transactions on Evolutionary Computation*, 14 (5) 669-670, 2010.

49. Köksalan, M. and Karahan, I. "An Interactive Territory Defining Evolutionary Algorithm: iTDEA," *IEEE Transactions on Evolutionary Computation*, 14 (5) 702-722, 2010.

50. Karahan, I. and Köksalan, M. "Territory Defining Evolutionary Algorithm and Preference Incorporation," *IEEE Transactions on Evolutionary Computation*, 14 (4) 636-664, 2010.

51. Köksalan, M. and Soylu, B. "Bicriteria p-hub Location Problem and Evolutionary Algorithms," *INFORMS Journal on Computing*, 22 (4), 528-542, 2010.

52. Soylu, B. and Köksalan, M. "A Favorable Weight-Based Evolutionary Algorithm for Multiple Criteria Problems," *IEEE Transactions on Evolutionary Computation*, 14 (2), 191-205, 2010.

53. Özpeynirci, Ö. and Köksalan, M., "Pyramidal tours and multiple objectives," *Journal of Global Optimization*, 48, 569-582, 2010.

54. Fowler, J., Gel, E., Köksalan, M., Korhonen, P., Marquis, J., and Wallenius, J. "Interactive Evolutionary Multi-Objective Optimization for Quasi-Concave Preference Functions," *European Journal of Operational Research,* 206 (2), 417-425, 2010.

55. Dehnokhalaji, A., Korhonen, P., Köksalan, M., Nasrabadi, N., and Wallenius, J. "Efficiency Analysis to Incorporate Interval Scale Data," *European Journal of Operational Research,* 207(2), 1116-1121, 2010.

56. Köksalan, M., Özpeynirci B. S., and Süral, H., "Forecasting Beer Demand at Anadolu Efes," *INFORMS Transactions on Education*, 10 (3), 140-145, 2010.

57. Barutçuoğlu, A., Demirtaş, D., Dilan, B., Düzgün, R., Savaşaneril, S., and Köksalan, M. "Bitmiş Araç Dağitimi ve Dağitim Merkezi Yer Seçimi," (Distribution Planning and Site Selection for a Car Manufacturer), *Endüstri Mühendisliği Dergisi*, 21 (1), 4-16, 2010.

58. Balibek, E. and Köksalan, M., "A Multi-Objective Multi-Period Stochastic Programming Model for Public Debt Management," *European Journal of Operational Research,* 205, 1, 205-217, 2010.

59. Köksalan, M., Büyükbaşaran, T., Özpeynirci, Ö., and Wallenius, J. "A Flexible Approach to Ranking with an Application to MBA Programs," *European Journal of Operational Research,* 201, 470-476, 2010.

60. Karasakal, E. K. and Köksalan, M. "Generating a Representative Subset of the Efficient Frontier in Multiple Criteria Decision Making," *Operations Research,* 57, 187-199, 2009.

61. Köksalan, M., Leskelä, R., Wallenius, H., and Wallenius, J. "Improving Efficiency in Multiple-Unit Combinatorial Auctions: Bundling Bids from Multiple Bidders," *Decision Support Systems*, 48, 103–111, 2009.

62. Köksalan, M., "Multiobjective Combinatorial Optimization: Some Approaches," *Journal of Multi-Criteria Decision Analysis*, 15, 69-78, 2009.

63. Köksalan, M. and Lokman B., "Approximating the Nondominated Frontiers of Multi-objective Combinatorial Optimization Problems," *Naval Research Logistics,* 56, 191-198, 2009.

64. Köksalan, M. and Özpeynirci B. S., "An Interactive Sorting Method for Additive Utility Functions, "*Computers and Operations Research*, 36, 2565-2572, 2009.

65. Köksalan, M., Mousseau, V., Özpeynirci, Ö., and Özpeynirci B. S., "A new outranking-based approach for assigning alternatives to ordered classes," *Naval Research Logistics,* 56, 74-85, 2009.

66. Özpeynirci, Ö. and Köksalan, M., "Multiobjective Traveling Salesperson Problem on Halin Graphs," *European Journal of Operational Research,* 196, 155-161, 2009.

67. Köksalan, M. and Tuncer, C. "A DEA-Based Approach to Ranking Multi-Criteria Alternatives," *Information Technology & Decision Making,* 8, 29-54, 2009.

68. Köksalan, M. and S. Batun, "Assigning Regions to Sales Representatives at Pfizer Turkey," *INFORMS Transactions on Education*, 9, 70-83, 2009.

69. Özpeynirci, Ö. and M. Köksalan, "Performance Evaluation using Data Envelopment Analysis in the Presence of Time Lags," *Journal of Productivity Analysis*, 27, 221–229, 2007.

70. Köksalan, M. and Phelps, S. "An Evolutionary Metaheuristic for Approximating Preference-Nondominated Solutions," *INFORMS Journal on Computing*, 19, 291-301, 2007.

71. Bilici, G., Ö. Çolak, F. Inaltekin, T.C. Küçük, S. Yetimoğlu, M. Köksalan, S.Savasaneril, "Fabrika Içi Çekme Esaslı Tasıma Sistemi Tasarımı," (The Design of a Pull-Type Materials Handling System), *Endüstri Mühendisliği Dergisi*, 18,3,31-42, 2007.

72. Köksalan, M. and Karasakal, E. "An Interactive Approach for Multiobjective Decision Making," *Journal of Operational Research Society,* 57, 532–540, 2006.

73. Pamuk, S., Köksalan, M., and Gullu, R. "Analysis of the Product Delivery System of a Beer Producer in Ankara," *Journal of Operational Research Society,* Vol. 55, 1137-1144, 2004.

74. Phelps, S. and Köksalan, M. "An Interactive Evolutionary Metaheuristic for Multiobjective Combinatorial Optimization," *Management Science,* Vol. 49, No. 12, 1726-1738, 2003.

75. Köksalan, M. and Plante, R. D. "Interactive Multi-Criteria Optimization for Multiple Response Product and Process Design," *Manufacturing and Service Operations Management,* Vol. 5, No. 4, 334-347, 2003.

76. Azizoglu, M, Köksalan, M, and Köksalan, S.K. "Scheduling to Minimize Maximum Earliness and Number of Tardy Jobs where Machine Idle Time is Allowed," *Journal of Operational Research Society* Vol. 54, pp. 661-664 (2003).

77. Köksalan, M. and Salman, S. "Beer in the Classroom: A Case Study of Location and Distribution Decisions, " *INFORMS Transactions on Education*, 4 (1), 65-77, 2003.

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80. Köksalan, M. and Ulu, C. "An Interactive Procedure for Placing Alternatives in Preference Classes," *European J. Oper. Res.* Vol 144, 429-439 (2003).

81. Ulu, C and Köksalan, M. "An Interactive Procedure for Selecting Acceptable Alternatives in the Presence of Multiple Criteria," *Naval Research Logistics,* Vol. 48, pp. 592-606 (2001).

82. Köksalan, M.M. and Rizi, O. "A Visual Interactive Approach for Multiple Criteria Decision Making with Monotone Utility Functions," *Journal of Operational Research Society*, Vol. 52, 665-672 (2001).

83. Altinkemer, K., Kazaz, B., Köksalan, M., and Moskowitz, H. "Optimization of Printed Circuit Board Manufacturing: Integrated Modeling and Algorithms," *European J. Oper. Res.* Vol. 124, 409-421, 2000.

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85. Köksalan, M.M., "A Heuristic Approach to Bicriteria Scheduling," *Naval Research Logistics* Vol. 46, pp. 777-789, 1999.

86. Köksalan, M.M. and Süral, H., " Location and Distribution Decisions: An Application for Malt Plants," *Interfaces*, Vol. 29, pp. 89-103, 1999.

87. Köksalan, M., Erkip, N., and Moskowitz, H., "Explaining Beer Demand: A Residual Modeling Regression Approach Using Statistical Process Control," *International Journal of Production Economics*, Vol. 58, pp. 265-276, 1999.

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92. Köksalan, M.M. and Sagala, P.N.S., "Interactive Approaches for Discrete Alternative Multiple Criteria Decision Making with Monotone Utility Functions," *Management Science*, Vol. 41, pp. 1158-1171, 1995.

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95. Köksalan M.M. and Öden, Ö., "Visual Interactive Approaches for Bi-criteria Decision Making," *Transactions on Operational Research (Yöneylem Arastirmasi Dergisi)*, Vol. 5, No. 1, pp. 27-44, 1993.

96. Köksalan, M.M. and Taner, O.V., "An Approach for Finding the Most Preferred Alternative in the Presence of Multiple Criteria," *European J. Oper. Res.,* Vol. 60, No. 1, pp. 52-60, 1992.

97. Köksalan, M.M. and Sagala, P.N.S., "An Interactive Approach for Choosing the Best of a Set of Alternatives," *Journal of the Operational Research Society*, Vol. 43, No. 3, pp. 259-263, 1992.

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100. Köksalan, M.M., Karwan, M.H., and Zionts, S., "An Approach for Solving Discrete Alternative Multiple Criteria Problems Involving Ordinal Criteria," *Naval Research Logistics*, Vol. 35, No. 6, pp. 625-641, 1988.

101. Kondakci, S., and Köksalan, M., "Interactive Decision Making: An Application," *Makina Tasarim ve Imalat Dergisi,* Cilt: 1, No: 3, 1987 (in Turkish).

102. Köksalan, M.M., "Practical Approaches in Solving the Multiple Criteria Decision Making Problems," *Makina Tasarim ve Imalat Dergisi,* Cilt.1, No. 3, 1987 (in Turkish).

103. Köksalan, M.M., Karwan, M.H., and Zionts, S., "Approaches for Discrete Alternative Multiple Criteria Problems for Different Types of Criteria," *IIE Transactions*, pp. 262-270, 1986.

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Books:

Multiple Criteria Decision Making: From Early History to the 21st Century, M. Köksalan, J. Wallenius, and S. Zionts, World Scientific, Singapore, June 2011.

Edited Books:

1. Operations Research, N. Erkip and M. Köksalan (editors), 2002, A Volume in Honour of Professor Halim Doğrusöz (in Turkish).
2. Multiple Criteria Decision Making in the New Millennium, M. Köksalan and S. Zionts (editors), Springer Verlag, 2001.
3. Proceedings of the Operations Research and Industrial Engineering Conference '90, N. Erkip and M. Köksalan (editors), 1991 (in Turkish).
4. Proceedings of the Seminar on Productivity, Cyprus '85, Ö. Saatçioglu, N. Erkip, M. Köksalan (editors), 1985 (in Turkish).

Publications in Books and Conference Proceedings:

1. Köksalan, M. and Batun, S. "Assigning Regions to Sales Representatives at Pfizer Turkey," In: Huber S., Geiger M., de Almeida A. (eds) Multiple Criteria Decision Making and Aiding. International Series in Operations Research & Management Science, vol 274, pp. 221-230.
2. Köksalan, M., Süral, H., and Özpeynirci, S. "Network Redesign in Turkey: The Supply, Production, and Distribution of Malt and Beer," Chapter 11, in Global Logistics, J. Bookbinder (ed.), International Series in Operations Research and Management, Springer, 181, NY 2013 (pp 247-265).
3. Soylu, B. and Köksalan, M., "An Evolutionary Algorithm for the Multi-objective Multiple Knapsack Problem," in Cutting-Edge Research Topics on Multiple Criteria Decision Making, Communications in Computer and Information Science 35, Y. Shi, S. Wang, Y. Peng, J. Li, Y. Zeng (eds), Springer-Verlag, pp. 1-8, 2009.
4. Köksalan, M., "Multiple Criteria Decision Making," in *Operations Research,* A Volume in Honour of Professor Halim Doğrusöz, N. Erkip and M. Köksalan (eds.), 2002 (in Turkish).
5. Pamuk, S. and Köksalan, M. "An Interactive Genetic Algorithm Applied to the Multiobjective Knapsack Problem," in Multiple Criteria Decision Making in the New Millennium, Proceedings of the 15th International Conference on Multiple Criteria Decision Making, M. Köksalan and S. Zionts (Eds.), Springer Verlag, pp. 265-272, 2001.
6. Azizoglu, M., Köksalan, M., and Kondakci, S. "Scheduling to Minimize Maximum Earliness and Number of Tardy Jobs where Machine Idle Time is Allowed," in Research and Practice in Multiple Criteria Decision Making, Proceedings of the 14th Conference on MCDM, Haimes, Y. and Steuer, R. (Eds.) Springer, pp. 381-387, 2000.
7. Kondakci, S., Azizoglu, M. and Köksalan, M., "Scheduling to Minimize Maximum Job Earliness Subject to Maximum Number of Tardy Jobs," *Proceedings of the 25th International Conference on Computers and Industrial Engineering*, S. Waly (ed.), 157-160, 1999.

8. Köksalan, M. and Tehneldere, M., "Approaches for Discrete Alternative Multiple Criteria Decision Making for Monotone Utility Functions," *Proceedings of the 25th International Conference on Computers and Industrial Engineering*, S. Waly (ed.), 105-108, 1999.
9. Köksalan, M. and Kondakci, S., "Multiple Criteria Scheduling on a Single Machine: A Review and a General Approach," in *Essays in Decision Making, A Volume in Honour of Stanley Zionts*, M. H. Karwan, J. Spronk, and J. Wallenius (eds.), 331-341, Springer Verlag, Berlin 1997.
10. Kondakci, S., Emre, E., and Köksalan, M., "Scheduling of Unit Processing Time Jobs on a Single Machine," *in Multiple Criteria Decision Making, Proceedings of the XII'th International Conference on MCDM*, T. Gal and T. Hanne (eds.), 654-660, Springer Verlag, Berlin, 1997.
11. Azizoglu, M., Kondakci, S. and Köksalan, M.M., "Bicriteria Scheduling: Minimizing Flowtime and Maximum Earliness on a Single Machine," in *Multicriteria Analysis, Proceedings of the XI'th International Conference on MCDM*, Joao Climaco (ed.), 279-288, Springer Verlag, Berlin, 1997.
12. Goldsman, D., Koksalan, M., Ockerman, D., Picciuto, J., and Tokol, G. "Standardized Time Series L_p-Norm Confidence Interval Estimators for Simulations," in *Proceedings of the Fourth Industrial Engineering Research Conference*, B. Schmeiser and R. Uzsoy (eds), 145-150, Institute of Industrial Engineers, Norcross, GA. 1995.
13. Köksalan, M. M. and Moskowitz, H. "Solving the Multiobjective Decision Making Problem Using a Distance Function," in *Multiple Criteria Decision Making; Expand and Enrich the Domains of Thinking and Application*, Gwo-Hshiung Tzeng, Hsiao-Fan Wang, Ue-Pyng Wen and Po. L. Yu (eds), Springer-Varlag, 101-107, New York, 1994.
14. Kondakci, S., Azizoglu, M., and Köksalan, M. M., "Scheduling with Multiple Criteria," in *Multiple Criteria Decision Making; Expand and Enrich the Domains of Thinking and Application*, Gwo-Hshiung Tzeng, Hsiao-Fan Wang, Ue-Pyng Wen and Po. L. Yu (eds), Springer-Varlag, 361-368, Springer Verlag, New York, 1994.
15. Tokol, G., Köksalan, M., Erkip, N., and Sepil, C., "Some Variations of the Batch Means Method," Proceedings of the IASTED International Conference on Modeling and Simulation, 58-61, Pittsburgh-USA, May 1993.
16. Sepil, C., Tokol, G., Köksalan, M., and Erkip, N., "A Review of Batch Means Procedures for Simulation Output Analysis," Proceedings of the Symposium on Advances in Simulation 1992, Istanbul, July 1992.
17. Köksalan, M. M. and Öden, Ö. "Visual Interactive Approaches for Bi-criteria Decision Making Problems," *Proceedings of the International Workshop on Multiple Criteria Decision Support*, 94-98, Helsinki, 1991.
18. Köksalan, M.M. and Basöz, N., "A Replication Approach to Interval Estimation in Simulation," *Proceedings of the 1991 Winter Simulation Conference*, Barry L. Nelson, W. David Kelton, Gordon M. Clark (eds.), 1023-1029, 1991.
19. Köksalan, M. and Beseli, Ç. "A Variation of the Methods of Zionts and Wallenius," in *Multiple Criteria Decision Making and Risk Analysis Using Microcomputers*, B. Karpak and S. Zionts eds., NATO ASI Series, Vol. F.56, pp. 283-291, Springer Verlag 1989.
20. Önal, Y., Erkip, N. and Köksalan, M., "A New Sequential Procedure for the Analysis of Simulation Output," *Proceedings Intern. AMSE Confer.* "Modeling and Simulation", Istanbul (Turkey), June 29-July 1, AMSE Press, Vol. 1D, 121-132, 1988.

21. Zionts, S., Karwan, M.H. and Köksalan, M.M., "An Approach for Solving the Discrete Alternatives Multicriteria Problem", *Proceedings of the 21st IEEE Conference on Decision and Control,* Orlando, December 1982.

Recent Conference Presentations:

- Köksalan, M. Keynote Speaker, "Unmanned Air Vehicle Routing considering Multiple Objectives," The Ninth International Conference on Information Technology and Quantitative Management (ITQM 2022), Online, December 2022.
- Köksalan, M. Plenary Speaker, "Routing Unmanned Air Vehicles under Multiple Objectives," The 26th International Conference on Multiple Criteria Decision Making, Portsmouth, UK, June 2022.
- Köksalan, M. and Karakaya, "Distance-based Value Functions for Interactive Approaches," INFORMS, Indianapolis, October 2022.
- Köksalan, M. Key Note Speaker, "Interactive Approaches and Underlying Value Functions," The 14th International Conference on Multiple Objective Programming and Goal Programming (MOPGP), Online, December 2021.
- Karakaya, G. and Köksalan, M., "Interactive algorithms for finding preferred solutions under weighted Tchebycheff preference functions," 22nd Conference of the International Federation of Operational Research Societies (IFORS), Seoul, South Korea, August 2021.
- Karakaya, G. and Köksalan, M. "Comparison of Solutions under a Weighted Tchebycheff Function," 25th International Conference on MCDM, Istanbul, Turkey, June 2019.
- Öztürk, D., Köksalan, M., and Karabay, N. "Real-Time Biobjective UAV Route Planning in Continuous Terrain," 25th International Conference on MCDM, Istanbul, Turkey, June 2019.
- Türeci, H., Öztürk, D., and Köksalan, M. "Interactive Algorithms for Biobjective UAV Route Planning Problem in Continuous Terrain," 25th International Conference on MCDM, Istanbul, Turkey, June 2019.
- Lokman, B., Ceyhan, G., and Köksalan, M. "A Web-based Decision Support System for Multi-Objective Mixed Integer Programs," 25th International Conference on MCDM, Istanbul, Turkey, June 2019.
- Ozates, M., Koksal, G. and Koksalan, M. "Incorporating Robustness in Interactive Multi-Response Surface Optimization of Product Design Parameters," 25th International Conference on MCDM, Istanbul, Turkey, June 2019.
- Dogan, I., Lokman, B., and Koksalan, M. "Representing the Nondominated Set with a Small Subset in Multi-objective Mixed-integer Programs," INFORMS Seattle, October 2019.
- Dasdemir, E., Batta, R., Köksalan, M. and Tezcaner Öztürk, D. "UAV Routing to Maximize Information Gain in a Monitored Environment with Time and Radar Restrictions," INFORMS Seattle, October 2019.
- Ozates, M., Koksal, G. and Koksalan, M. "Interactive Two Response Design Parameter Optimization Considering Prediction Errors and the Specification Region," INFORMS Seattle, October 2019.
- Dasdemir, E., Batta, R., Köksalan, M. and Tezcaner Öztürk, D. "Insansız Hava Araçları Icin Cok Amaclı Rotalama," 39th Operational Research and Industrial Engineering

National Conference (39. Ulusal Yöneylem Araştırması ve Endüstri Mühendisliği Konferansı), Ankara, Turkey, June 2019.
- Lokman, B., Koksalan, M., Korhonen, P., and Wallenius, P. "An Interactive Approximation Algorithm for Multi-objective Integer Programs," INFORMS Phoenix, November 2018.
- Dogan, I., Lokman, B., and Koksalan, M. "Representing the Nondominated Set for Multi-objective Integer Programs," INFORMS Phoenix, November 2018.
- Ozates, M., Koksal, G. and Koksalan, M. "Robustness and Prediction Error in Multi Response Parameter Design Optimization," INFORMS Phoenix, November 2018.
- Koksalan, M. and Karakaya, G. "Estimating the Form of a Decision Maker's Preference Function and Converging to Preferred Solutions," INFORMS Phoenix, November 2018.
- Ayasandir, U., Azizoglu, M. and Koksalan, M. "Multiple stock size two dimensional cutting stock problem - an application to a marble company," EURO Valencia, July 2018.
- Türeci, H., Köksalan, M, and Öztürk, D., "Interactive approaches for bi-objective UAV route planning in continuous space," EURO Valencia, July 2018.
- Ozates, M., Koksal, G. and Koksalan, M., "Interactive multi response surface optimization under uncertainty for robust parameter design," EURO Valencia, July 2018.

Projects Sponsored by the Industry:

1. Turkey's Digital Index Research (made for Accenture) (with the project team), 2016.
2. Turkey's Top Digital Companies 2015 (made for Accenture) (with the project team), 2015.
3. Reorganization of the Supply Chain of Beer and Malt (made for Efes Pilsen - a private beer brewer company) (with the project team), 2005.
4. A Routing System for the Distribution of Beer (made for Efes Pilsen - a private beer brewer company), (with the project team)- Project Director, 1999.
5. A Sales Forecast Study for the Beer Demand in Turkey (made for Efes Pilsen - a private beer brewer company), (with the project team)- Project Director, 1995.
6. A Plant Location and Distribution System for a New Malt Plant (of a private beer brewer company), (with the project team)-Project Director, 1993.
7. A Plant Location and Distribution System for Efes Pilsen (a private beer brewer company), (with the project team)-Project Director, 1992.
8. A Planning and Control System for the Activities of Barmek Holding (with the project team) 1989.
9. A Systems Analysis Project for the Reorganization of Barmek Holding (with the project team) 1989.
10. Solid Waste Management System for the Municipality of Bursa (with the project team) 1987.

Grants:

1. Çok Amaçlı Tamsayı Problemlerinde Baskın Çözümler Üzerine: Analizler, Yaklaşımlar ve Uygulamalar (Nondominated Points of Multi-objective Integer Programming Problems: Analysis, Approaches and Applications), TÜBİTAK 1001, March 2016 -

December 2018. Lokman, B. (Principle Investigator), Koksalan, M., Ceyhan, G., Doğan, I., Ozarik, S. S.

2. Real Time Bi-objective UAV Route Planning, (sponsored by USAF Office of Scientific Research), 2016-2018, Project director.
3. Interactive Approaches for Bi-Objective UAV Route Planning in Continuous Space, (sponsored by USAF Office of Scientific Research), 2015-2016, Project director.
4. Analyses, Approaches and Applications on the Nondominated Solutions of Multi-objective Integer Programs, (sponsored by Turkish Scientific and Technological Research Council, 2015-2017 (with the project team).
5. Çok Amaçlı Sıralama Problemleri için Etkileşimli ve Olasılıklı Yaklaşımlar, METU BAP-03-07-2014-001, 2014 (with the project team).
6. Çok Amaçlı Ürün ve Süreç Tasarımı Optimizasyonu için Etkileşimli Yaklaşımlar (Interactive Approaches for Multiobjective Product and Process Design Optimization), METU BAP-03-07-2014-002, 2014. Project director.
7. Optimizasyon ve Genel Denge Modelleri Aracılığı ile Çok Amaçlı Enerji ve Çevre Politikaları Analizi, METU BAP-08-11-2014-019, 2014. Project director.
8. Sektörel Sıralı Sınıflandırma Problemi ve Kosgeb Hizmet Teşvikleri için Öncelikli Sektörlerin Belirlenmesi, TÜBİTAK-109M577 Project April 2010-October 2011. Project Team: Banu Soylu (director), M. Köksalan (consultant).
9. Multiple Criteria Evaluation in Sorting and Classification Problems-a joint project between French and Turkish scientists, Project Director of the Turkish side (sponsored by TÜBITAK, Turkey and CNRS France), 2005-2006.
10. A General Purpose Production Planning System for the Small and Medium-Sized Enterprises of Turkey- Project Director (sponsored by the Scientific and Technical Research Council of Turkey- TÜBİTAK), 1992-1994.
11. Introduction of New Information, Production and Management Science Technologies to the Small and Medium Sized Enterprises of Turkey-Project Director, Planning Grant given by the NATO Science for Stability Program, 1993.

Professional Memberships:

Institute of Operations Research and Management Sciences (INFORMS), INFORMS Section on MCDM, International Society on Multiple Criteria Decision Making, and Operational Research Society of Turkey.

Professional Services:

- President of the International Society on MCDM, 2015-2019.
- Founding President of the INFORMS Section on MCDM (2010, 2011).
- President Elect of the International Society on MCDM, 2011-2015.
- Member of the *Awards Committee of the International Society on Multiple Criteria Decision Making* (1998-2000, 2010-2013, 2015-2019).
- Chairman of the *Awards Committee of the International Society on Multiple Criteria Decision Making* (2002 - 2010).

- Guest editor (with K. Deb) for the special issue of IEEE Transactions on Evolutionary Computation on "Preference-based Multiobjective Evolutionary Algorithms," 2009-2010.
- Jury member for the first Turkish OR Applications Competition, YA/EM 2005.
- Jury Member for the 2003 INFORMS Case competition.
- Member of the Editorial Board of the International Journal *of Information Technology and Decision Making (IT&DM).*
- Member of the Editorial Board of the *EURO Journal on Decision Processes (EJDP).*
- Member of the Editorial Board of the *Transactions on Operational Research/Yöneylem Araştirmasi Dergisi*, 1993-2004.
- Member of the *Executive Committee of the International Society on Multiple Criteria Decision Making* for the terms 1994-1998, 1998-2002, 2002-2006, 2006-2009, 2011-2023.
- Chair of the 15th International Conference on Multiple Criteria Decision Making, Ankara, Turkey, July 10-14, 2000.
- Member of the Awards Committee of the MCDM Awards given at the 15th International Conference in Ankara, Turkey.
- Member of the International Advisory Board for the 14th, 15th, 16th, 17th, 18th, 19th, 21st, and 22nd International Conferences on Multiple Criteria Decision Making.
- Has been serving as a referee for the following journals: *European Journal of Operational Research, Industrial Engineering (in Turkish), IEEE Transactions on SMC, Information Systems and Operational Research, Journal of Multi-criteria Decision Analysis, Journal of Optimization Theory and Applications, Management Science, Naval Research Logistics, Omega, Operations Research, Telecommunication System, TIMS J. on Group Decision and Negotiation.*

Ph. D. Dissertations Supervised in I.E. Department, Middle East Technical University:

1. "Issues in Multiple Criteria Decision Making with Discrete Alternatives," Paul N. S. Sagala, (1990).
2. "Interval Estimation for the Means of Simulation Output Processes," Gamze Tokol, O.R. Program (1994).
3. "Multiobjective Decision Making: An Interactive Approach and Discrete Representation of Efficient Frontier," Esra Karasakal, (2000).
4. "Preference-Driven Evolutionary Metaheuristics for Multiobjective Combinatorial Optimization," Selcen Pamuk, O.R. Program (2001).
5. "An Evolutionary Algorithm for Multiple Criteria Problems," Banu Soylu (2007).
6. "Approaches for Multiobjective Combinatorial Optimization Problems," Özgür Özpeynirci (2008).
7. "Multiobjective Approaches to Public Debt Management," Emre Balıbek (2008).
8. "Converging Preferred Regions In Multi-Objective Combinatorial Optimization Problems," Banu Lokman (2011).
9. "Multicriteria Portfolio Optimization," Ceren Tuncer Şakar (2013).
10. "Heuristic and Exact Approaches for Multi-objective Routing," Diclehan Tezcaner Öztürk (2013).
11. "Decision Support for Multiattribute Auctions," Gülşah Karakaya (2013).

12. "A Study of the Day-Ahead Energy Market Auctions from a Multi-objective Perspective," Gokhan Ceyhan (2020) (supervised with Banu Lokman).
13. "Unmanned Air Vehicle Routing with Multiple Objectives," Erdi Daşdemir (2021) (supervised with Diclehan Tezcaner Öztürk).

M.S. Theses Supervised in I.E. Department, Middle East Technical University:

1. "Interactive Approaches for Multiobjective Decision Making," Çağla Beşeli, (1986).
2. "Response Errors in Multiple Criteria Decision Making," Gamze Tokol, (1987).
3. "Analysis of Simulation Output Using Batch Means," Yıldırım S. Ünal, (1987).
4. "A Simulation Application in a Flow Shop," Celal Kaplan, (co-supervisor) (1987).
5. "Interactive Approaches in Multiple Criteria Decision Making Involving Discrete Alternatives," Orhan V. Taner, (1988).
6. "An Interactive Approach for Continuous Solution Space Multiple Criteria Decision Making Problems," Levent Tuncel, (1988).
7. "Visual Interactive Approaches for Bi-criteria Decision Making Problems," Özgür Öden, (1989).
8. "A Computerized Production and Financial Planning System," Ayşen Kartal, (1994).
9. "Multiobjective Decision Making Using a Distance Function," Tuncer Özcan, (1994).
10. "Approaches for Discrete Alternative Multiple Criteria Decision Making for Monotonic Utility Functions," Muhteşem Tehneldere, (1994).
11. "A Visual Interactive Approach for the Discrete Alternative Multiple Criteria Decision Making Problem for Monotonic Utility Functions," Oya Rizi, (1994).
12. "A Genetic Algorithm for Bicriteria Scheduling," Aslı Aytaç, (1998).
13. "Bicriteria Scheduling Using Genetic Algorithms," Ahmet Burak Keha, (1999).
14. "An Interactive Approach for Selecting Acceptable Alternatives in the Presence of Multiple Criteria," Canan Ulu, (2000).
15. "A Study of the Student Placement System for Higher Education Institutions in Turkey," Özgür Yazlalı, (2001).
16. "New Approaches for Performance Evaluation Using Data Envelopment Analysis," Özgür Özpeynirci, (2004).
17. "Evolutionary Algorithms for Deterministic and Stochastic Unconstrained Function Optimization," Kerem Koçkesen, (Co-Superviser) (2004).
18. "Ranking Units by Target-direction-set Value Efficiency Analysis and Mixed Integer Programming," Tayyar Büyükbaşaran (2005).
19. "An Interactive Approach for Multi-criteria Sorting Problems," Burak Keser (2005).
20. "A DEA-based Approach to Ranking Multi-criteria Alternatives," Ceren Tuncer (2006).
21. "Approaches for Multi-objective Combinatorial Optimization Problems," Banu Lokman (2007).
22. "Combinatorial Auction Problems," Şafak Baykal (2007).
23. "Performance Measurement in Multiobjective Combinatorial Optimization," Bilge Bozkurt (2007).
24. "Disaster Response and Relief Facility Location for Istanbul," Nihan Görmez (2008).
25. "Preference-based Flexible Multiobjective Evolutionary Algorithms," İbrahim Karahan (2008).
26. "Multi-objective Route Selection," Diclehan Tezcaner (2009).

27. "Multi-objective Hub Location Problem," Aras Barutçuoglu (2009).
28. "Approaches for Multi-attribute Auctions," Gülşah Karakaya (2009).
29. "A Probabilistic Approach to Multi-criteria Sorting," Aslıgül Buğdacı (2009).
30. "Multi-objective Combinatorial Optimization Using Evolutionary Algorithms," Burcu Özsayın (2009).
31. "Approaches for Special Multiobjective Combinatorial Optimization Problems with Side Constraints," Banu Akın (2012).
32. "Generating Representative Nondominated Point Subsets in Multi-objective Integer Programs," Gökhan Ceyhan (2014).
33. "A Probabilistic and Interactive Aproach to Multiple Criteria Sorting," Sinem Mutlu (2015).
34. "Multiple Objective Energy and Environmental Policy Analysis," Şahan Yıldız (2015).
35. "Interactive Evolutionary Approaches To Multi-Objective Feature Selection," Müberra Özmen (2016).
36. "Interactive Approaches for Bi-Objective UAV Route Planning in Continuous Space," Hannan Türeci (2017).
37. "Issues in Selecting a Representative Set for Multi-objective Integer Programs," (Supervised by Lokman, B., Co-Supervised by Köksalan, M.), Sami S. Özarık (2017).
38. "Real Time Unmanned Air Vehicle Routing," Nail Karabay (2018).
39. "Representing the Nondominated Set with a Small Subset in Multi-objective Mixed Integer Programs," (Supervised by Lokman, B., Co-Supervised by Köksalan, M.) Ilgin Doğan (2018).