CURRICULUM VITAE

Emre Alper Yıldırım

1 Personal Data

Address:	School of Mathematics
	The University of Edinburgh
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2 Academic Degrees

Docent	Industrial Engineering, Higher Education Council of Turkey	2006
Ph.D.	Operations Research, Cornell University, Ithaca, New York, USA	2001
M.S.	Operations Research, Cornell University, Ithaca, New York, USA	2000
B.S.	Industrial Engineering, Bilkent University, Ankara, Turkey	1997

3 Research Interests

Operational Research
Mathematical Optimization
Optimization in Real-Life Applications
Design, Analysis, and Implementation of Algorithms

4 Academic Positions

August 2019 – present	Lecturer
	School of Mathematics
	The University of Edinburgh, Edinburgh, United Kingdom

February 2018 – January 2019	Visiting Professor School of Mathematics The University of Edinburgh, Edinburgh, United Kingdom
September 2016 – September 2018	Associate Director Graduate School of Sciences and Engineering Koç University, Istanbul, Turkey
December 2015 – July 2019	Professor Department of Industrial Engineering Koç University, Istanbul, Turkey
February 2011 – December 2015	Associate Professor Department of Industrial Engineering Koç University, Istanbul, Turkey
June 2008 – January 2011	Associate Professor Department of Industrial Engineering Bilkent University, Ankara, Turkey
September 2005 – June 2008	Assistant Professor Department of Industrial Engineering Bilkent University, Ankara, Turkey
August 2001 – June 2005	Assistant Professor Department of Applied Mathematics and Statistics Stony Brook University, Stony Brook, New York, USA
August 2000 – December 2000	Instructor School of Operations Research and Industrial Engineering Cornell University, Ithaca, New York, USA
January 1999 – August 2001	Graduate Research Assistant School of Operations Research and Industrial Engineering Cornell University, Ithaca, New York, USA
June 1999 – August 1999	Givens Research Associate Mathematics and Computer Science Division Argonne National Laboratory Argonne, Illinois, USA

January 1998 – January 2000	Teaching Assistant
	School of Operations Research and Industrial Engineering
	Cornell University, Ithaca, New York, USA

5 Professional Awards and Honours

5.1 Research Awards

1. **2017:** TÜBİTAK (Turkish Scientific and Technical Research Council) 2219 International Postdoctoral Research Fellowship

2. **2015:** Journal of Global Optimization Best Paper Award for a Paper Published in 2014

3. **2011:** TÜBA (The Turkish Academy of Sciences) Young Scientist Award (TÜBA-GEBİP)

4. **2009:** TÜBİTAK (The Scientific and Technological Research Council of Turkey) Incentive Award

5. **2006:** INFORMS (Institute for Operations Research and Management Sciences) Optimization Society Prize for Young Researchers

6. **2004:** The Research Foundation of SUNY (State University of New York) Promising Inventor Award

7. **2003:** National Science Foundation Faculty Early Career Development (CAREER) Award

8. **1999:** Givens Research Associateship, Argonne National Laboratory

5.2 Teaching Awards

1. **2004:** Outstanding Teacher Award, Department of Applied Mathematics and Statistics, Stony Brook University

2. **1999:** Undergraduate Teaching Award, presented to top graduate student Teaching Assistant at the School of Operations Research and Industrial Engineering, Cornell University by AIIE (American Institute of Industrial Engineers)

5.3 Travel Awards

1. **2008:** TÜBİTAK (Turkish Scientific and Technical Research Council) Travel Award for the Foundations of Mathematical Conference (FoCM) in Hong Kong, China

2. **2006:** TÜBİTAK (Turkish Scientific and Technical Research Council) Travel Award for the INFORMS (Institute for Operations Research and Management Sciences) Annual Meeting in Pittsburgh, PA, USA

3. **2000:** Student Travel Award for ISMP 2000 (International Symposium on Mathematical Programming) in Atlanta, GA, USA

4. **2000:** SIAM Student Travel Award for 2000 SIAM (Society of Industrial and Applied Mathematics) Annual Meeting in Puerto Rico, USA

5. **1997:** TÜBİTAK (Turkish Scientific and Technical Research Council) A-1 (NATO) Travel Support for Graduate Studies Abroad

5.4 Scholarships and Tuition Waivers

1. **1997 – 2001:** Graduate Teaching and Research Assistantship, Cornell University, Ithaca, New York, USA

2. **1992 – 1997:** Merit-Based Full Undergraduate Tuition Waiver and Stipend Awarded by Bilkent University, Ankara, Turkey

5.5 Other Honours

1. **Spring 2019:** President's List of Teaching Excellence, Koç University, Istanbul, Turkey

2. **December 2017:** Plenary Speaker at the 4th Conference on Optimization Methods and Software, Havana, Cuba

3. **Spring 2014, Spring 2015, Spring 2016, Fall 2016, Spring 2019:** Dean's List of Teaching Excellence, College of Engineering, Koç University, Istanbul, Turkey

4. **May 2012:** Plenary Speaker at the 3rd Conference on Optimization Methods and Software, Chania, Crete, Greece

5. **June 1997:** Graduated with the highest cumulative GPA in a class of 55, Department of Industrial Engineering, Bilkent University, Ankara, Turkey

6. **June 1992:** Ranked 23rd among over 1 million entrants in the Nationwide University Admissions Exam in Turkey

6 Research Supervision

6.1 Postdoctoral Researchers

6.1.1 Past

1. Çağlar Arı. Project Title: *Convex Optimization in Parameter Estimation of Probabilistic Models*. January 2014 – March 2017

6.2 Doctoral Students

6.2.1 Current

1. Yuzhou Qiu. Thesis Title: *TBD*. Ph.D. in Optimization and Operational Research, The University of Edinburgh, August 2024 (expected)

2. Simay Tekgül. Thesis Title: *TBD*. Ph.D. in Optimization and Operational Research, The University of Edinburgh, August 2025 (expected)

6.2.2 Past

1. Yakup Görkem Gökmen. Thesis Title: *On Outer Approximations of Copositive Formulations of Various Nonconvex Optimization Problems*. Ph.D. in Industrial Engineering and Operations Management, Koç University, December 2019

2. Nermin Elif Kurt (co-advised with Prof. Lerzan Örmeci, Koç University). Thesis Title: *Market Clearing Models in European Day Ahead Electricity Markets*. Ph.D. in Industrial Engineering and Operations Management, Koç University, June 2019

3. Gizem Sağol. Thesis Title: *On Polyhedral Approximations of Copositive Formulations of Certain Quadratic Optimization Problems*. Ph.D. in Industrial Engineering and Operations Management, Koç University, August 2016

4. Xiaofei Fan-Orzechowski (co-advised with Prof. Eugene Feinberg, Stony Brook University). Thesis Title: *Applications of Lovász's Theta and Lagrangian Functions to Certain Deterministic and Stochastic Optimization Problems*. Ph.D. in Applied Mathematics and Statistics, Stony Brook University, December 2005 (Recipient of the 2006 Woo Jong Kim Dissertation Award at Stony Brook University)

5. Elizabeth John. Thesis Title: *Implementation of Warm-Start Strategies in Interior-Point Methods for Linear Programming*. Ph.D. in Applied Mathematics and Statistics, Stony Brook University, August 2005

6.3 Master's Students

6.3.1 Past (1-year MSc Programme with Summer Project)

1. **Summer 2021:** Supervisor of 7 individual MSc summer projects

2. **Summer 2020:** Supervisor of 4 individual MSc summer projects

6.3.2 Past (2-year M.S. Programme with Thesis)

1. Müge Yalçınkaya. Thesis Title: *An Adaptive Large Neighborhood Search Algorithm for the Carrier-Vehicle Traveling Salesman Problem*. M.S. in Industrial Engineering, Koç University, July 2019 (Co-advised with Prof. Güneş Erdoğan, University of Bath)

2. Özge Soyoğul. Thesis Title: *A Simulation-Optimization Approach to the Storage Location Assignment Problem: A Case Study of a Distribution Warehouse in Automotive Manufacturing*. M.S. in Industrial Engineering, Koç University, February 2016

3. Ali Hassanzadeh Kalshani. Thesis Title: *Optimization Based Heuristics for the Graph Partitioning Problem*. M.S. in Industrial Engineering, Koç University, July 2015

4. Ali Yeşilçimen. Thesis Title: *Alternative Optimization Models for Reviewer Allocation in Peer Review Systems*. M.S. in Industrial Engineering, Koç University, February 2015

5. Senem Sancar. Thesis Title: *Simultaneous Berth Allocation and Crane Assignment Problem*. M.S. in Industrial Engineering, Koç University, July 2014 (Co-advised with Prof. Deniz Özdemir, Yaşar University)

6. Onur Uzunlar. Thesis Title: *Joint Routing, Gateway Selection, Scheduling and Power Management Optimization in Wireless Mesh Networks*. M.S. in Industrial Engineering, Bilkent University, July 2011 (Co-advised with Prof. Kağan Gökbayrak, Bilkent University)

7. Selva Şelfun. Thesis Title: *Outer Approximation Algorithms for the Congested p-Median Problem*. M.S. in Industrial Engineering, Bilkent University, July 2011 (Co-advised with Prof. Hande Yaman, Bilkent University)

8. Ahmed Burak Paç. Thesis Title: *Row Generation Techniques for Approximate Solution of Linear Programming Problems*. M.S. in Industrial Engineering, Bilkent University, September 2010

9. Esra Koca. Thesis Title: *A Two-Stage Solution Approach to Spare Parts Distribution under a Special Cost Structure*. M.S. in Industrial Engineering, Bilkent University, July 2010

10. Utku Guruşçu. Thesis Title: *Implementation of a Specialized Algorithm for Clustering Using Minimum Enclosing Balls*. M.S. in Industrial Engineering, Bilkent University, July 2010

6.4 Undergraduate Students

6.4.1 Past

1. Nur Timurlenk, IE 490 Introduction to Research, Fall 2010, Bilkent University, Project: *Solving Sudoku Puzzles: Formulations, Cuts, and Bounds*

2. Pelin Diren, IE 490 Introduction to Research, Fall 2009, Bilkent University, Project: *Heuristics for Control of Wireless Mesh Networks*

3. Olcay Sarmaz, IE 490 Introduction to Research, Fall 2009, Bilkent University, Project: *Exact Methods for Joint Channel Assignment, Routing, and Link Scheduling in Multi-Radio Wireless Mesh Networks*

4. Özge Demiryapan, IE 490 Introduction to Research, Fall 2007, Bilkent University, Project: *Further Insights into the Average Behavior of the Simplex Method*

7 Research Grants

7.1 Past

1. Principal Investigator, TÜBİTAK (The Scientific and Technological Research Council of Turkey). *Convex Relaxations of Various NP-Hard Optimization Problems*, 12,600 EUR (11,038 GBP), February 1, 2018 – August 1, 2018.

2. Co-Investigator, University of Bath - Koç University Strategic Partnership Fund. *Solving the Vehicle-Carrier Traveling Salesperson Problem*, 1,350 GBP, July 1, 2017 – June 30, 2018. (PI: Prof. Güneş Erdoğan, University of Bath)

3. Principal Investigator, TÜBİTAK (The Scientific and Technological Research Council of Turkey). *Copositive Optimization Based Solution Approaches for NP-Hard Optimization Problems*, 196,780 TRY (69,168 GBP), June 1, 2013 – December 1, 2015. Project Number: 112M870

4. Co-Investigator, TÜBİTAK (The Scientific and Technological Research Council of Turkey). *Advanced Multi-Objective Optimization Techniques for Simultaneous Berth Allocation and Crane Scheduling Problem under Uncertainty*, 118,610 TRY (41,691 GBP), June 1, 2013 – June 1, 2015. Project Number: 112M865. (PI: Prof. Deniz Özdemir, Yaşar University)

5. Co-Principal Investigator, IBM Open Collaborative Research (OCR) Award. *Proactive Transportation Plan Management*, 30,000 USD (19,965 GBP), March 1, 2013 – March 1, 2015. (PI: Prof. Metin Türkay, Koç University)

6. Co-Investigator, TÜBİTAK (The Scientific and Technological Research Council of Turkey). *Multiobjective Optimization Based Solution Methods for Planning and Operational Problems of Wireless Mesh Networks*, 111,840 TRY (48,918 GBP), October 1, 2010 – September 30, 2012. Project Number: 110M312. (PI: Prof. Kağan Gökbayrak, Bilkent University)

7. Co-Investigator, TÜBİTAK (The Scientific and Technological Research Council of Turkey). *Optimization of Production-Emission and Carbon Allowance Trading Processes Under the Carbon Trade Mechanism and Statistical Analysis of Carbon Market Data*, 135,295 TRY (58,055 GBP), September 15, 2010 – September 15, 2012. Project Number: 110M307. (PI: Prof. Ülkü Gürler, Bilkent University; Other Co-Investigators: Prof. Emre Berk and Prof. Deniz Yenigün, Bilkent University)

8. Principal Investigator, TÜBİTAK (The Scientific and Technological Research Council of Turkey). *A Comprehensive Electronic Proposal Evaluation and Selection System*, 212,180 TRY (86,293 GBP), August 1, 2009 – February 1, 2012. Project Number: 109M149. (Other Co-Investigators: Prof. Cevdet Aykanat, Bilkent University and Prof. A. Yavuz Oruç, University of Maryland)

9. Co-Investigator, Platform ARGE, *Optimization of Spare Parts Depot and Spare Parts Distribution System at TOFAŞ A. Ş.*, 80,000 TRY (32,606 GBP), November 1, 2007 – August 31, 2008. (PI: Prof. Barbaros C. Tansel, Bilkent University)

10. Principal Investigator, TÜBİTAK (The Scientific and Technological Research Council of Turkey). *Development of Specific and Efficient Algorithms for Large-Scale Geometric Optimization Problems*, 20,250 TRY (8,256 GBP), October 1, 2007 – October 1, 2008. Project Number: 107M411

11. Principal Investigator, Bilkent University Faculty Research Development Grant. *Investigations in Geometric Optimization*, 1,500 USD (765 GBP), January 1, 2007 – December 31, 2007

12. Principal Investigator, ADP Investor Communications Services. *SPIR (New York State Strategic Partnership for Industrial Resurgence): Algorithmic Aspects of Booklet Bundling*, 18,593 USD (10,027 GBP), July 15, 2004 – July 15, 2005. (Co-PIs: Prof. Joseph S. B. Mitchell and Prof. Esther M. Arkin, Stony Brook University)

13. Principal Investigator, National Science Foundation Faculty Early Career Development (CAREER) Award. *CAREER: A Unifying Interior-Point Approach to Sensitivity Analysis and Reoptimization in Conic Programming*, 400,000 USD (242,760 GBP), June 1, 2003 – May 31, 2008 (terminated in August 2006 due to relocation). Project Number: DMI0237415

8 Scholarly Publications

8.1 Ph.D. Dissertation

1. E. Alper Yıldırım. *An Interior-Point Perspective on Sensitivity Analysis in Linear Programming and Semidefinite Programming*. School of Operations Research and Industrial Engineering, Cornell University, Ithaca, NY, USA. August 2001.

8.2 Refereed Journal Publications

1. E. Alper Yıldırım and Michael J. Todd. Sensitivity Analysis in Linear Programming and Semidefinite Programming Using Interior-Point Methods. *Mathematical Programming*, 90 (2), pp. 229–261, 2001.

2. E. Alper Yıldırım and Michael J. Todd. An Interior-Point Approach to Sensitivity Analysis in Degenerate Linear Programs. *SIAM Journal on Optimization*, 12 (3), pp. 692–714, 2002.

3. E. Alper Yıldırım and Stephen J. Wright. Warm Start Strategies in Interior-Point Methods for Linear Programming. *SIAM Journal on Optimization*, 12 (3), pp. 782–810, 2002.

4. E. Alper Yıldırım. An Interior-Point Perspective on Sensitivity Analysis in Semidefinite Programming. *Mathematics of Operations Research*, 28 (4), pp. 649–676, 2003.

5. Piyush Kumar, Joseph S. B. Mitchell, and E. Alper Yıldırım. Approximate Minimum Enclosing Balls in High Dimensions Using Core-Sets. *The ACM Journal of Experimental Algorithmics*, Vol. 8, Article 1, 2003. (Special issue devoted to selected papers from the Fifth Workshop on Algorithm Engineering and Experiments (ALENEX'03))

6. E. Alper Yıldırım. Unifying Optimal Partition Approach to Sensitivity Analysis. *Journal of Optimization Theory and Applications*, 122 (2), pp. 405–423, 2004.

7. Piyush Kumar and E. Alper Yıldırım. Minimum Volume Enclosing Ellipsoids and Core Sets. *Journal of Optimization Theory and Applications*, 126 (1) pp. 1–21, 2005.

8. E. Alper Yıldırım and Xiaofei Fan-Orzechowski. On Extracting Maximum Stable Sets in Perfect Graphs Using Lovász's Theta Function. *Computational Optimization and Applications*, 33 (2–3), pp. 229–247, 2006.

9. E. Alper Yıldırım. On the Minimum Volume Covering Ellipsoid of Ellipsoids. *SIAM Journal on Optimization*, 17 (3), pp 621–641, 2006. (Winner of the 2006 INFORMS Optimization Society Young Researcher Prize)

10. Michael J. Todd and E. Alper Yıldırım. On Khachiyan's Algorithm for the Computation of Minimum Volume Enclosing Ellipsoids. *Discrete and Applied Mathematics*, 155 (13), pp 1731–1744, 2007.

11. Piyush Kumar and E. Alper Yıldırım. Computing Minimum Volume Enclosing Axis-Aligned Ellipsoids. *Journal of Optimization Theory and Applications*, 136 (2), pp. 211–228, 2008.

12. Elizabeth John and E. Alper Yıldırım. Implementation of Warm-Start Strategies in Interior-Point Methods for Linear Programming in Fixed Dimension. *Computational Optimization and Applications*, 41 (2), pp. 151–183, 2008.

13. E. Alper Yıldırım. Two Algorithms for the Minimum Enclosing Ball Problem. *SIAM Journal on Optimization*, 19 (3), pp. 1368–1391, 2008.

14. S. Damla Ahipaşaoğlu and E. Alper Yıldırım. Identification and Elimination of Interior Points for the Minimum Enclosing Ball Problem. *SIAM Journal on Optimization*, 19 (3), pp. 1392–1396, 2008.

15. Piyush Kumar and E. Alper Yıldırım. An Algorithm and a Core Set Result for the Weighted Euclidean One-center Problem. *INFORMS Journal on Computing*, 21 (4), pp. 614–629, 2009.

16. E. Alper Yıldırım. A Simpler Characterization of a Spectral Lower Bound on the Clique Number, *Mathematical Methods of Operations Research*, 71 (2), pp. 267–281, 2010.

17. Piyush Kumar and E. Alper Yıldırım. A Linearly Convergent Linear-Time First-Order Algorithm for Support Vector Classification with a Core Set Result, *INFORMS Journal on Computing*, 23 (3), pp. 377–391, 2011.

18. E. Alper Yıldırım. On the Accuracy of Uniform Polyhedral Approximations of the Copositive Cone, *Optimization Methods and Software*, 27 (1), pp. 155–173, 2012.

19. Esra Koca and E. Alper Yıldırım. A Hierarchical Solution Approach for a Multicommodity Distribution Problem Under a Special Cost Structure. *Computers and Operations Research*, 39 (11), pp. 2612–2624, 2012.

20. Kağan Gökbayrak and E. Alper Yıldırım. Joint Gateway Selection, Transmission Slot Assignment, Routing, and Power Control for Wireless Mesh Networks. *Computers and Operations Research*, 40 (7), pp. 1671–1679, 2013.

21. Immanuel M. Bomze, Stefan Gollowitzer, and E. Alper Yıldırım. Rounding on the Standard Simplex: Regular Grids for Global Optimization. *Journal of Global Optimization*, 59 (2-3), pp. 243–258, 2014.(Winner of the Journal of Global Optimization Best Paper Award for a paper published in 2014)

22. Emre Mengi, E. Alper Yıldırım, and Mustafa Kılıç. Numerical Optimization of Eigenvalues of Hermitian Matrix Functions. *SIAM Journal on Matrix Analysis and Applications*, 35 (2), pp. 699–724, 2014.

23. Gizem Sağol and E. Alper Yıldırım. Analysis of Copositive Optimization Based Linear Programming Bounds on Standard Quadratic Optimization. *Journal of Global Optimization*, 63 (1), pp. 37–59, 2015.

24. Refail Kasımbeyli and E. Alper Yıldırım. Optimality Conditions in Nonconvex and Nonsmooth Optimization Revisited. *Pure and Applied Functional Analysis*, 2 (1), pp. 99–109, 2017.

25. Kağan Gökbayrak and E. Alper Yıldırım. Exact and Heuristic Approaches Based on Noninterfering Transmissions for Joint Gateway Selection, Time Slot Allocation, Routing and Power Control for Wireless Mesh Networks. *Computers and Operations Research*, 81, pp. 102–118, 2017.

26. E. Alper Yıldırım. Inner Approximations of Completely Positive Reformulations of Mixed Binary Quadratic Optimization Problems: A Unified Analysis. *Optimization Methods and Software*, 32 (6), pp. 1163–1186, 2017.

27. Ali Yeşilçimen and E. Alper Yıldırım. An Alternative Polynomial-Sized Formulation and an Pptimization Based Heuristic for the Reviewer Assignment Problem. *European Journal of Operational Research*, 276 (2), pp. 436–450, 2019.

28. Güneş Erdoğan and E. Alper Yıldırım. Exact and Heuristic Algorithms for the Carrier-Vehicle Traveling Salesman Problem. *Transportation Science*, 55 (1), pp. 101–121, 2021.

29. Yakup Görkem Gökmen and E. Alper Yıldırım. On Standard Quadratic Programs with Exact and Inexact Doubly Nonnegative Relaxations. *Mathematical Programming*, to appear, 2021.

30. Jacek Gondzio and E. Alper Yıldırım. Global Solutions of Nonconvex Standard Quadratic Programs via Mixed Integer Linear Programming Reformulations. *Journal of Global Optimization*, to appear, 2021.

31. E. Alper Yıldırım. An Alternative Perspective on Copositive and Convex Relaxations of Nonconvex Quadratic Programs. *Journal of Global Optimization*, to appear, 2021.

8.3   Refereed Publications in Conference Proceedings

1. Piyush Kumar, Joseph S. B. Mitchell, and E. Alper Yıldırım. Computing Core-Sets and Approximate Smallest Enclosing Hyperspheres in High Dimensions. *Proceedings of the 5th Workshop on Algorithm Engineering and Experiments (ALENEX)*, pp. 45–55, 2003.

2. Onur Uzunlar, Kağan Gökbayrak, and E. Alper Yıldırım. Joint Routing, Gateway Selection, Scheduling and Power Management Optimization in Wireless Mesh Networks, *Proceedings of the Industrial and Systems Engineering Research Conference (ISERC 2012)*, 2012.

8.4   Citation Statistics

1. Total Number of Google Scholar Citations: 1514 (As at 24 August 2021)

2. Total Number of Scopus Citations: 763 (As at 24 August 2021)

9 Lectures, Conference Presentations and Seminars

1. SIAM Conference on Optimization (online) July 2021
   Contributed Talk: On Standard Quadratic Programs with Exact and Inexact Doubly Nonnegative Relaxations

2. 31st European Conference on Operational Research (EURO 2021 - online) July 2021
   Invited Talk: An Alternative Perspective on Copositive and Convex Relaxations of Nonconvex Quadratic Programs

3. EUROPT 2021 Workshop on Advances in Continuous Optimization (online) July 2021
   Invited Talk: On Standard Quadratic Programs with Exact and Inexact Doubly Nonnegative Relaxations

4. Department of Industrial Engineering Seminar (online) December 2020
   Bilkent University, Ankara, Turkey
   Invited Talk: On Standard Quadratic Programs with Exact and Inexact Doubly Nonnegative Relaxations

5. RICAM Special Semester on Optimization December 2019
   Johann Radon Institute for Computational and Applied Mathematics, Linz, Austria
   Invited Talk: On Doubly Nonnegative Relaxations of Standard Quadratic Programs

6. School of Mathematics Colloquium October 2019
   The University of Edinburgh, Edinburgh, United Kingdom
   Invited Talk: Convex Relaxations of Nonconvex Optimization Problems

7. Optimization, Game Theory and Data Analysis Workshop December 2018
   University of Vienna, Vienna, Austria
   Invited Talk: Global solutions of nonconvex standard quadratic programs via mixed integer linear programming formulations

8. Optimization and Numerical Analysis Seminars December 2018
   University of Birmingham, Birmingham, United Kingdom
   Invited Talk: Global Solutions of Nonconvex Standard Quadratic Programs via Mixed Integer Linear Programming Formulations

9. School of Management Seminar November 2018
   University of Bath, Bath, United Kingdom
   Invited Talk: Exact and heuristic algorithms for the carrier-vehicle traveling salesman problem

10. Computational Mathematics and Applications Seminar November 2018
    University of Oxford, Oxford, United Kingdom
    Invited Talk: Alternative Mixed Integer Linear Programming Formulations for Globally Solving Standard Quadratic Programs

11. Workshop on Semidefinite Programming: Theory and Applications   October 2018
    The University of Edinburgh, Edinburgh, United Kingdom
    Invited Talk: On Doubly Nonnegative Relaxations of Standard Quadratic Programs

12. 23rd International Symposium on Mathematical Programming   July 2018
    Bordeaux, France
    Contributed Talk: MILP Formulations for Globally Solving Nonconvex Standard Quadratic Programs

13. Computational Optimization in Action 2018 Workshop   June 2018
    The University of Edinburgh, Edinburgh, United Kingdom
    Invited Talk: Alternative Mixed Integer Linear Programming Formulations for Globally Solving Standard Quadratic Programs

14. Nationally Taught Courses in Operational Research   June 2018
    NATCOR: Convex Optimization
    The University of Edinburgh, Edinburgh, United Kingdom
    Invited Lecture: Convex Relaxations of Nonconvex Optimization Problems

15. Edinburgh Research Group in Optimization (ERGO) Seminar Series   April 2018
    The University of Edinburgh, Edinburgh, United Kingdom
    Invited Talk: An Alternative Formulation and an Optimization Based Heuristic for the Reviewer Assignment Problem

16. 4th Conference on Optimization Methods and Software   December 2017
    Havana, Cuba
    Plenary Talk: Mixed Integer Linear Programming Formulations of Standard Quadratic Programs

17. Industrial Engineering Department Seminar, Bilkent University   December 2017
    Ankara, Turkey
    Invited Talk: An Alternative Formulation and an Optimization Based Heuristic for the Reviewer Assignment Problem

18. Oberwolfach Workshop on Copositivity and Complete Positivity   October 2017
    Oberwolfach, Germany
    Invited Talk: Mixed Integer Linear Programming Formulations of Standard Quadratic Programs

19. University of Bath, Bath, United Kingdom   July 2017
    Invited Talk: An Alternative Formulation and an Optimization Based Heuristic for the Reviewer Allocation Problem

20. 5th International Conference on Continuous Optimization   August 2016
    Tokyo, Japan

Contributed Talk: Inner Approximations of Completely Positive Reformulations of Mixed Binary Quadratic Programs

21. Barbaros Tansel Memorial Lecture   March 2016
Bilkent University, Ankara, Turkey
Invited Talk: Copositive and Completely Positive Optimization: Theory and Tractable Approximations

22. National Conference on Operations Research   September 2015
and Industrial Engineering, Ankara, Turkey
Invited Talk: Copositive Optimization: Theory and Polyhedral Approximations (in Turkish)

23. 27th European Conference on Operational Research   July 2015
Glasgow, United Kingdom
Invited Talk: Inner Polyhedral Approximations of Completely Positive Optimization Problems

24. 13th EUROPT Workshop on Advances in Continuous Optimization   July 2015
Edinburgh, United Kingdom
Invited Talk: Inner Polyhedral Approximations of Completely Positive Optimization Problems

25. Yaşar University, İzmir, Turkey   March 2015
Invited Talk: Completely Positive Optimization: Theory and Tractable Approximations

26. Sabancı University, Istanbul, Turkey   December 2014
Invited Talk: Completely Positive Optimization: Theory and Tractable Approximations

27. Koç University Seminar Series, Istanbul, Turkey   May 2014
Invited Talk: Optimization Based Approaches for the Design of an Effective Peer Review System

28. Anadolu University, Eskişehir, Turkey   November 2013
Invited Talk: Copositive Optimization: Theory and Tractable Approximations

29. 4th International Conference on Continuous Optimization   July 2013
Lisbon, Portugal
Invited Talk: Copositive Optimization Based Bounds on Standard Quadratic Optimization

30. 11th EUROPT Workshop on Advances in Continuous Optimization   June 2013
Florence, Italy
Invited Talk: Copositive Optimization Based Bounds on Standard Quadratic Optimization

31. Koç University Board of the Trustees Meeting, Istanbul, Turkey   May 2013
Invited Talk: Optimization Based Approaches for the Design of Effective Peer Review Systems (in Turkish)

32. 21st International Symposium on Mathematical Programming   August 2012
    Berlin, Germany
    Invited Talk: Warm-Start Strategies: What Matters More?

33. 3rd Conference on Optimization Methods and Software   May 2012
    Crete, Greece
    Plenary Talk: The Frank-Wolfe Algorithm, Away Steps, and Core Sets in Optimization

34. 25th Conference of European Chapter on Combinatorial Optimization   April 2012
    Antalya, Turkey
    Invited Talk: A Hierarchical Solution Approach for a Multicommodity Distribution Problem
    Under a Special Cost Structure

35. Galatasaray University, Istanbul, Turkey   April 2012
    Invited Talk: A Hierarchical Solution Approach for a Multicommodity Distribution Problem
    Under a Special Cost Structure (in Turkish)

36. Operations Research Center for Industrial and Business Systems   March 2012
    Seminar, Koç University, Istanbul, Turkey
    Invited Talk: A Hierarchical Solution Approach for a Multicommodity Distribution Problem
    Under a Special Cost Structure

37. Turkish Academy of Sciences Young Scientists Program   September 2011
    Annual Meeting, Ege University, Izmir, Turkey
    Invited Talk: Multicriteria Optimization Approaches for the Development of an Effective
    Peer Review System (in Turkish)

38. Workshop on Global Optimization   July 2011
    Izmir University of Economics, Izmir, Turkey
    Invited Talk: On Tractable Approximations of Copositive Optimization: Theory and Practice

39. SIAM Conference on Optimization, Darmstadt, Germany   May 2011
    Invited Talk: Computational Experience with Polyhedral Approximations of Copositive
    Programs

40. Johann Bernoulli Institute of Mathematics and Computer Science   May 2011
    University of Groningen, Groningen, The Netherlands
    Invited Talk: Core Sets in Optimization: A Unifying Framework

41. Mathematics Colloquium, Koç University, Istanbul, Turkey   March 2011
    Invited Talk: Core Sets in Optimization: A Unifying Framework

42. University of Vienna, Vienna, Austria   January 2011
    Invited Talk: Core Sets in Optimization: A Unifying Framework

43. Operations Research Center for Industrial and Business Systems Seminar   July 2010
Koç University, Istanbul, Turkey
Invited Talk: Core Sets in Optimization: A Unifying Framework

44. 8th EUROPT Workshop on Advances in Continuous Optimization   July 2010
Aveiro, Portugal
Contributed Talk: On the Accuracy of Uniform Polyhedral Approximations of the Copositive Cone

45. 24th Mini EURO Conference, Izmir, Turkey   June 2010
Invited Talk: On the Accuracy of Uniform Polyhedral Approximations of the Copositive Cone

46. Industrial Engineering Department Seminar, Bilkent University   October 2009
Ankara, Turkey
Invited Talk: Recent Progress in Core Sets

47. International Symposium on Mathematical Programming   August 2009
Chicago, USA
Invited Talk: Recent Advances in Warm-Starts in Interior-Point Methods

48. Faculty of Engineering and Natural Sciences Seminar   January 2009
Sabanci University, Istanbul, Turkey
Invited Talk: Efficient Algorithms for Large-Scale Minimum Enclosing Ball Problems

49. National Conference on Operations Research   July 2008
and Industrial Engineering, Istanbul, Turkey
Contributed Talk: Efficient Algorithms for Large-Scale Optimization Problems Based on Core Sets (in Turkish)

50. FoCM (Foundations of Computational Mathematics) Conference   June 2008
Hong Kong, China
Invited Talk: Recent Progress in Core Sets (session chair)

51. SIAM Conference on Optimization, Boston, USA   May 2008
Sponsored Talk: Two Algorithms for the Minimum Enclosing Ball Problem (minisyposium organizer and session chair)

52. Institute of Applied Mathematics General Seminar,   October 2007
Middle East Technical University, Ankara, Turkey
Invited Talk: Two Algorithms for the Minimum Enclosing Ball Problem

53. Second Mathematical Programming Society International Conference   August 2007
on Continuous Optimization, McMaster University, Hamilton, Canada
Invited Talk: On Khachiyan's Algorithm for the Computation of Minimum-Volume Enclosing Ellipsoids (session chair)

54. 22nd European Conference on Operational Research   July 2007
    Prague, Czech Republic
    Sponsored Talk: On Khachiyan's Algorithm for the Computation of Minimum-Volume Enclosing Ellipsoids (stream organizer, session organizer, and session chair)

55. Joint EUROPT-OMS Meeting, Prague, Czech Republic   July 2007
    Sponsored Talk: Two Algorithms for the Minimum Enclosing Ball Problem (member of the organizing committee, session organizer, and session chair)

56. INFORMS Fall 2006 Meeting, Pittsburgh, USA   November 2006
    Invited Talk: On the Minimum Volume Covering Ellipsoid of Ellipsoids (recipient of the INFORMS Optimization Prize for Young Researchers)

57. International Symposium on Mathematical Programming   August 2006
    Rio de Janeiro, Brazil
    Sponsored Talk: On the Minimum Volume Covering Ellipsoid of Ellipsoids (cluster organizer, session organizer, and session chair)

58. Industrial Engineering Department Seminar, Bilkent University   March 2006
    Ankara, Turkey
    Invited Talk: An Implementation of Warm-Start Strategies in Interior-Point Methods for Linear Programming

59. Institute of Applied Mathematics General Seminar   March 2006
    Middle East Technical University, Ankara, Turkey
    Invited Talk: An Implementation of Warm-Start Strategies in Interior-Point Methods for Linear Programming

60. Operations and Information Systems Group Seminar Series   March 2006
    Koç University, Istanbul, Turkey
    Invited Talk: On Extracting Maximum Stable Sets from Lovász's Theta Function in Perfect Graphs

61. Industrial Engineering Department Seminar, Bilkent University   September 2005
    Ankara, Turkey
    Invited Talk: On Extracting Maximum Stable Sets from Lovász's Theta Function in Perfect Graphs

62. Continuous Optimization Seminar   June 2005
    University of Waterloo, Waterloo, Canada
    Invited Talk: On the Minimum Volume Covering Ellipsoid of Ellipsoids

63. Workshop on Mathematical Programming in Data Mining   June 2005
    and Machine Learning, McMaster University, Hamilton, Canada
    Invited Talk: On the Minimum Volume Covering Ellipsoid of Ellipsoids (session organizer and chair)

64. SIAM Conference on Optimization, Stockholm, Sweden   May 2005
    Sponsored Talk: An Implementation of Warm-Start Strategies in Interior-Point Methods
    for Linear Programming (minisymposium organizer and chair)

65. Operations Research Seminar   February 2005
    Stony Brook University, Stony Brook, USA
    Invited Talk: On Extracting Large Stable Sets from Lovász's Theta Function

66. INFORMS Fall 2004 Meeting, Denver, USA   October 2004
    Sponsored Talk: Efficient Algorithms for Large-Scale Geometric Optimization (invited
    session organizer and session chair)

67. New York University, New York, USA   October 2004
    Invited Talk: Identifying Core Sets and Its Algorithmic Implications in Large-Scale Geo-
    metric Optimization

68. McMaster University, Hamilton, Canada   May 2004
    Invited Talk: Efficient Algorithms for Large-Scale Geometric Optimization Problems and
    Core Sets

69. INFORMS Fall 2003 Meeting, Atlanta, USA   October 2003
    Sponsored Talk: Minimum Enclosing Balls and Ellipsoids for Large Data Sets (invited
    session organizer and session chair)

70. DIMACS Workshop on Geometric Optimization   May 2003
    Rutgers University, Piscataway, USA
    Invited Talk: Approximate Minimum Volume Enclosing Ellipsoids Using Core Sets

71. Lehigh University, Bethlehem, USA   April 2003
    Invited Talk: Computing Core-Sets and Approximate Smallest Enclosing Hyperspheres
    in High Dimensions

72. IBM T. J. Watson Research Center, Yorktown Heights, USA   March 2003
    Invited Talk: Computing Core-Sets and Approximate Smallest Enclosing Hyperspheres
    in High Dimensions

73. Carnegie Mellon University, Pittsburgh, USA   January 2003
    Invited Talk: Computing Core-Sets and Approximate Smallest Enclosing Hyperspheres
    in High Dimensions

74. FoCM (Foundations of Computational Mathematics) Conference   August 2002
    Minneapolis, USA
    Invited Talk: An Interior-Point Perspective on Sensitivity Analysis in Semidefinite Pro-
    gramming

75. SIAM Conference on Optimization, Toronto, Canada   May 2002
    Contributed Talk: On Sensitivity Analysis in Conic Programming

76. The University of Michigan, Ann Arbor, USA   March 2002
    Invited Talk: On Sensitivity Analysis in Conic Programming

77. INFORMS Fall 2001 Meeting, Miami Beach, USA   November 2001
    Contributed Talk: An Interior-Point Perspective on Sensitivity Analysis in Semidefinite
    Programming

78. Stanford University, Stanford, USA   March 2001
    Invited Talk: An Interior-Point Perspective on Sensitivity Analysis in Linear and Semidefinite Programming

79. The University of Florida, Gainesville, USA   February 2001
    Invited Talk: An Interior-Point Perspective on Sensitivity Analysis in Linear and Semidefinite Programming

80. Stony Brook University, Stony Brook, USA   January 2001
    Invited Talk: An Interior-Point Perspective on Sensitivity Analysis in Linear and Semidefinite Programming

81. McMaster University, Hamilton, Canada   January 2001
    Invited Talk: An Interior-Point Perspective on Reoptimization in Linear Programming

82. The University of Waterloo, Waterloo, Canada   January 2001
    Invited Talk: An Interior-Point Perspective on Sensitivity Analysis in Linear and Semidefinite Programming

83. Bilkent University, Ankara, Turkey   January 2001
    Invited Talk: An Interior-Point Perspective on Sensitivity Analysis in Linear and Semidefinite Programming

84. INFORMS Fall 2000 Meeting, San Antonio, USA   November 2000
    Invited Talk: An Interior-Point Perspective on Sensitivity Analysis

85. International Symposium on Mathematical Programming   August 2000
    Atlanta, USA
    Invited Talk: An Interior-Point Perspective on Sensitivity Analysis in Linear Programming

86. SIAM Annual Meeting, Puerto Rico   July 2000
    Contributed Talk: Warm-Start Strategies in Interior-Point Methods for Linear Programming

87. INFORMS Fall 1999 Meeting, Philadelphia, USA   November 1999
    Contributed Talk: Sensitivity Analysis in Linear and Semidefinite Programming Using Interior-Point Methods

88. Argonne National Laboratory, MCS Division, Chicago, USA   July 1999
    Invited Talk: Semidefinite Programming and Sensitivity Analysis for Dummies

10 Teaching

10.1 The University of Edinburgh

1. MATH11111 Fundamentals of Optimization (Course Organiser and Lecturer: 2020/21 Semester 1, 2021/22 Semester 1)

2. MATH10065 Fundamentals of Operational Research (Tutor: 2020/21 Semester 1)

3. MATH11007 Methodology, Modelling and Consulting Skills (Tutor: 2019/20 Semester 1)

4. MATH11152 Object-Oriented Programming with Applications (Tutor: 2019/20 Semester 1)

10.2 Koç University

1. INDR 201 Discrete Mathematical Structures. Fall 2011, Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Fall 2017, Spring 2019.

2. INDR 430/530 Decision Analysis. Fall 2011, Fall 2012.

3. INDR 450/580 Selected Topics in Industrial Engineering: Approximation Algorithms. Spring 2011.

4. INDR 484/584 Logistics Management. Spring 2011, Spring 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016.

5. INDR 501 Optimization Models and Algorithms. Fall 2016, Fall 2017.

6. INDR 562 Integer and Combinatorial Optimization. Spring 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2019.

10.3 Bilkent University

1. IE 202 Introduction to Modeling and Optimization. Spring 2006, Spring 2008, Spring 2009, Fall 2009, Spring 2010.

2. IE 400 Principles of Engineering Management. Fall 2006, Fall 2007.

3. IE 500 Mathematics of Operations Research. Fall 2007, Fall 2008, Fall 2009, Fall 2010.

4. IE 513 Linear Programming. Fall 2005, Fall 2006.

5. IE 519 Approximation Algorithms. Fall 2008, Fall 2010.

6. IE 614 Nonlinear Programming. Spring 2007, Spring 2010.

10.4 Stony Brook University

1. AMS 301 Finite Mathematical Structures A. Fall 2001, Spring 2002, Fall 2002, Spring 2003, Fall 2003, Spring 2004.

2. AMS 544 Discrete and Nonlinear Optimization. Spring 2002, Spring 2003, Spring 2004.

3. AMS 641 Semidefinite Programming and Its Applications, Fall 2002.

4. EAS 101 Engineering and Applied Sciences, Fall 2003.

10.5 Cornell University

1. OR&IE 522 Topics in Linear Optimization, Fall 2000.

10.6 Curriculum Development

1. Reworked the postgraduate-level course *Fundamentals of Optimization* (MATH 11111), The University of Edinburgh, 2020/21 Semester 1

2. Developed the operational research component into the postgraduate-level course *Object-Oriented Programming with Applications* (MATH 11152), The University of Edinburgh, 2019/20 Semester 1

3. Reworked the graduate course *Optimization Models and Algorithms* (INDR 501), Koç University, Fall 2016

4. Developed a new course on *Discrete Mathematical Structures* (INDR 201), Koç University, Fall 2011

5. Offered a new graduate course on *Approximation Algorithms* (INDR 450/580), Koç University, Spring 2011

6. Developed and offered a new graduate course on *Approximation Algorithms* (IE 519), Bilkent University, Fall 2008

7. Developed and offered a new graduate course on *Mathematics of Operations Research* (IE 500), Bilkent University, Fall 2007

8. Developed and offered a new graduate course on *Semidefinite Programming and Its Applications* (AMS 641), Stony Brook University, Fall 2002

9. Completely reworked the graduate course AMS 544 (Discrete and Nonlinear Optimization), Stony Brook University, Spring 2002

11   Departmental and University Service

11.1   The University of Edinburgh

1. Member of the University Senate (August 2021 – August 2024)

2. Data & Decisions PhD Theme Representative (December 2020 – present)

3. Maxwell Institute Research Fellows Mentor (March 2021)

4. Member of the Maxwell Institute Research Fellows Hiring Panel (April 2021)

5. Operational Research MSc Project Coordinator (September 2019 – December 2020)

11.2   Koç University

1. Associate Director of the Graduate School of Sciences and Engineering (September 2016 – September 2018)

2. Member of the University Coordination Committee (September 2016 – September 2018)

3. Member of the College of Engineering Faculty Council (August 2016 – July 2019)

4. Member of the Executive Council and Academic Council of the Graduate School of Sciences and Engineering (September 2016 – September 2018)

5. MÜDEK (Association for Evaluation and Accreditation of Engineering Programs) Department Coordinator (Fall 2015 – Spring 2016)

6. Member of the Faculty Search Committee (Fall 2015)

7. Member of the Doctoral Qualifying Exam Committee (Fall 2014 – July 2019)

8. Graduate Program Coordinator, June 2013 – July 2015

9. Member of the Graduate School of Sciences and Engineering Academic Council, January 2013 – December 2015

10. Coordinator of the Area Track Program in Operations Research, August 2011 – August 2013

11.3   Bilkent University

1. Member of the Faculty Executive Committee, Fall 2009 – February 2011

2. Member of the Library Advisory Board, April 2007 – February 2011

3. Library Representative of the Department of Industrial Engineering, December 2007 – February 2011

4. Co-organizer of the Weekly Department Seminars, Fall 2006 – Spring 2007

5. Member of the Graduate Committee, February 2006 – February 2011

6. Member of the Student Academic Performance and Evaluation Committee (SAPEC), July 2006 – February 2011

7. Member of the Doctoral Qualifying Examination Committee, Fall 2006 – Spring 2010

11.4   Stony Brook University

1. Member of the university-wide Administrative Review Committee, Fall 2004 – Fall 2005

2. Member of the university-wide University Affairs Committee, Fall 2004 – Fall 2005

3. Member of the Graduate Admissions Committee, 2005

4. Member of the Operations Research Faculty Search Committee, 2005

12   Professional Activities

12.1   Editorial Positions

1. Associate Editor, *EURO Journal on Computational Optimization* (December 2020 – present)

2. Member of the Editorial Board, *Optimization Letters* (January 2014 – present)

3. Member of the Editorial Board, *Optimization Methods and Software* (May 2008 – present)

4. Member of the Editorial Board, *Algorithmic Operations Research* (November 2004 – December 2012)

12.2   Other Professional Activities

1. Member of the EPSRC Mathematical Sciences Prioritisation Panel, 2020

2. Member of the EPSRC Associate College, 2020 – present

3. Member of the Program Committee, International Symposium on Combinatorial Optimisation, Bath, United Kingdom, 2020

4. Organizing Committee Co-Chair, 4th Conference on Optimization Methods and Software, Havana, Cuba, 2017

5. Member of the Program Committee, 4th Conference on Optimization Methods and Software, Havana, Cuba, 2017

6. Member of the Program Committee, IIE International Conference, Istanbul, Turkey, June 2013

7. Organizing Committee Chair, The 3rd Conference on Optimization Methods and Software, Crete, Greece, 2012

8. Member of the Editorial Board, Engineering Dictionary in Turkish, Turkish Academy of Sciences (TÜBA), September 2011 – November 2011

9. Member of the Scientific Committee, 4th International Conference of Iranian Operations Research Society, University of Guilan, Iran, May 2011

10. Committee Member, INFORMS Optimization Society Prize for Young Researchers, 2010

11. Member of the Program Committee, 24th Mini EURO Conference on Continuous Optimization and Information-Based Technologies in the Financial Sector, Izmir, Turkey, July 2010

12. Member of the Program Committee, National Conference on Operations Research and Industrial Engineering, Bilkent University, Ankara, Turkey, June 2009

13. Nonlinear Programming Cluster Organizer, 23rd European Conference on Operational Research, Bonn, Germany, July 2009

14. Member of the Organizing Committee, EURO Mini Conference on Continuous Optimization and Knowledge-Based Technologies, Neringa, Lithuania, May 2008

15. Member of the Organizing Committee, 2nd Conference on Optimization Methods and Software and 6th EUROPT Workshop on Advances in Continuous Optimization, Prague, Czech Republic, July 2007

16. Nonlinear Programming Cluster Organizer, 22nd European Conference on Operational Research, Prague, Czech Republic, July 2007

17. Nonsmooth Optimization and Convex Programming Cluster Organizer, 19th International Symposium on Mathematical Programming (ISMP), Rio de Janeiro, Brazil, July 2006

18. National Science Foundation Panelist for the Operations Research Program, 2002

19. Turkish National Scientific and Technological Research Council (TÜBİTAK) Panelist for the Industrial Engineering Program, 2011, 2012, 2013

20. Ad hoc reviewer for *Mathematical Programming, SIAM Journal on Optimization, Mathematical Programming Computation, Mathematics of Operations Research, Operations Research, Discrete Applied Mathematics, Optimization and Engineering, Journal of Optimization Theory and Applications, Computational Optimization and Applications, Optimization Methods and Software, European Journal of Operational Research, Optimization, Algorithmic Operations Research, Algorithmica, Information Sciences, Theoretical Computer Science, Applied Mathematics Letters, Optimization Letters, Applied Mathematics and Computation, Journal of Applied Mathematics and Computing, International Journal on Computational Geometry and Applications, SIAM Journal on Scientific Computing, IEEE Transactions on Parallel and Distributed Systems, Mathematical Methods of Operations Research, Neural Networks, Journal of the Franklin Institute, International Journal of Computer Mathematics, Central European Journal of Operational Research, Journal of Graphic Tools, IEEE Transactions on Neural Networks, Journal of Classification, Science in China, Turkish Journal of Mathematics, Endüstri Mühendisliği (in Turkish), Yöneylem Araştırması (in Turkish), MPS-SIAM Book Series on Optimization, SIAM Books, SODA'03 (Symposium on Discrete Algorithms), SODA'10 (Symposium on Discrete Algorithms), SoCG'15 (Symposium on Computational Geometry), ALENEX'03 (Fifth Workshop on Algorithm Engineering and Experiments), 2013 IEEE International Symposium on Information Theory, European Control Conference - ECC 2013*

21. Reviewer for *American Mathematical Society (AMS) Mathematical Reviews Database*, 2001 − 2005

13   Professional Society Memberships

1. The Operational Research Society

2. Mathematical Optimization Society (MOS)

3. Society of Industrial and Applied Mathematics (SIAM)

4. Yöneylem Araştırması Derneği (YAD – Operations Research Society of Turkey)