

PERSONAL INFORMATION

Date of birth: February 13, 1957

Place of birth: Ankara, Turkey

Address: Department of Industrial Engineering, Bilkent University, Bilkent, Ankara 06800,
Turkey

e-mail: nesim@bilkent.edu.tr

EDUCATION

Ph.D 1981 -1984 Department of IE and EM, Stanford University, USA

M.S 1980-1981 Department of IE and EM, Stanford University, USA

B.S. 1974-1979 Industrial Engineering Department, Middle East Technical University, Turkey

PROFESSIONAL EXPERIENCE

9/22-8/23 Visiting Prof., Stern School of Management, NYU

9/17-6/18 Visiting Prof., School of Management, TUM

9/17-1/18 Visiting Prof., Technical University of Eindhoven

9/11-8/12 Visiting Prof., Stern School of Management, NYU

3/10-3/13 Associate Provost, Bilkent University

1/10-5/16 Trustee, Board of Trustees, TED University, Ankara

9/05-Present Professor, Dept. of IE, Bilkent Univ.

9/03-8/04 Visiting Prof., Technical University of Eindhoven

9/00-10/01 Chairperson, IE Dept., METU, Ankara.

4/98-3/01 Member, Admin. Board, Grad. Sch. of Natural and Applied Sci., METU, Ankara

8/97-8/05 Adjunct Prof., Grad. Prog. of Science and Technology Policy Studies, METU,
Ankara.

8/95-6/96 Visiting Prof., Dept. of IE and OR, Univ. of California, Berkeley.

4/94-8/05 Prof., IE Dept., METU, Ankara.

10/93-6/95 Member, Mat., Mech. and Manuf. Syst. Research Group, (Research Project
Granting Panel), The Scientific and Technical Research Council of Turkey.

10/93-6/95 Chairperson, OR Graduate Program, METU, Ankara.

9/92-6/95 Member, Board of Directors, University Research Fund, METU, Ankara.

9/91-12/92 Executive, Mat., Mech. and Manuf. Syst. Research Group, (Research Project
Granting Panel), The Scientific and Technical Research Council of Turkey.

6/91-9/91 Visiting Assoc. Prof., Dept. of IE and EM, Stanford Univ., Stanford.

3/90-3/92 Member, Board of Directors, Chamber of Mechanical Engineers, the
Professional Institute for Mechanical and Industrial Engineers, Ankara.

8/89-10/89 Visiting. Assoc. Prof., Dept. of IE and EM, Stanford Univ., Stanford.

6/88-8/88 Visiting Scholar, Dept. of IE and EM, Stanford Univ., Stanford.

88-91 Assistant Chairperson, IE Dept., METU, Ankara.

11/87-4/94 Associate Prof., IE Dept., METU, Ankara.

9/84-11/87 Assistant Prof., IE Dept., METU, Ankara.

7/83-5/84 Visiting Assist. Prof., Dept. of IE and OR, Cornell Univ., Ithaca.

3/79-9/84 Research Assistant, IE Dept., METU, Ankara.(on leave 1/80-8/84)

12/77-1/79 Student Assistant, IE Dept., METU, Ankara.

OTHER PROFESSIONAL ACTIVITIES

A Report on the Higher Education in Turkey (in Turkish and with other participants): Diğer Katılımcılar ile Birlikte: Türkiye Yükseköğretim Alanının Yeniden Yapılandırılması Çalıştayı Raporu, Çalıştay Tarihi ve Yeri - (30 Haziran-1 Temmuz 2022 - Türkiye Barolar Birliği, Av. Teoman Evren Konferans Salonu, Ankara) Kasım 2022
<https://drive.google.com/file/d/1Nr27ZdioDDjSkt_EckzwEYyRFutGLQ-5/view?usp=sharing>

A series of articles prepared for Sarkaç.org (in Turkish):

Bilgiç, T., Erkip, N. (2022a) Araştırma üniversitesi nedir?, Sarkaç, <https://sarkac.org/2022/10/arastirma-universitesi-nedir/>

Bilgiç, T., Erkip, N. (2022b) Araştırma üniversiteleri için teşvik programları nasıl tasarlanmalı?, Sarkaç, <https://sarkac.org/2022/10/arastirma-universiteleri-icin-tesvik-programlari-nasil-tasarlanmalı/>

Bilgiç, T., Erkip, N. (2022c) YÖK Araştırma Üniversitesi Programı nedir?, Sarkaç, <https://sarkac.org/2022/10/yok-arastirma-universitesi-programi-nedir/>

Bilgiç, T., Erkip, N. (2022d) Önce Üniversite Olmak Gerek, <https://sarkac.org/2022/10/once-universite-olmak-gerek/>

External Reviewer, New York University, Tandon School of Engineering, Department of Technology Management, and Innovation, 2019

Trustee, TED University Board of Trustees, 2010 – 2016

Member, Advisory Board, Ozyegin University, Faculty of Engineering, IE Dept, 2014

INFORMS, Member of the Nicholson Prize Committees, 2011-2012

INFORMS, Judge for Interactive Sessions, 2010-2012

Organizer of Bilkent University Workshop on Supply Chain and Logistics, 2007-2011

Involved in planning activities for private and public higher educational institutions, Involved in curriculum design activities 2006-2011

Prepared a report to assess activities of European Supply Chain Forum, 2004

Participated in the activities of European Supply Chain Forum, 2003-2004

Invited article: “Üniversitelerin geleceği nasıl şekillenecek?” Tartışma başlatmaya yönelik düşünceler”, (In Turkish - Thoughts to motivate discussion on the future of universities), *Toplum ve Bilim*, Vol: 97, pp. 247-259, Summer 2003

Head, Board of Directors of the Operational Research Society, Turkey, 2001-2003

Member, Advisory Board, Bogazici University, Faculty of Engineering, 2001-2002

Involved in the preparation for a series of reports (1, 2, 2a) on the technological capabilities of the Turkish Automotive Industry, 2002-2003

Member, International Advisory Board, Technology Development Fund, Turkey (2000)

Involved in curriculum design for private/ public higher educational institutions, 1996-1999

Actively participated in the “Science-Technology-Industry Discussion Platform“, a voluntary organization sponsored by Turkish Academy of Sciences, The Scientific and Technical Research Council of Turkey and Technology Development Foundation of Turkey, 1991-1998. *Contributed to the following publications of the Platform:*

(As an editor and a coordinator) “Araştırma-Geliştirme Sistemi, Yapısı ve Çerçevesi“, (in Turkish-A Proposal for the Research and Development System- It's Structure and Components), March 1996, Ankara

(As a member) “Yüksek Öğretimde Kalite Yönetimi“, (in Turkish-Quality Management in Higher Education), February 1996, Ankara

(As a member) “Enformatik Alanına Yönelik Bilim Sanayi ve Teknoloji Politikaları“, (in

Turkish- Science, Industrial and Technology Policies for Informatics), May 1995, Ankara

Member, “Special Expertise Commission on Science and Technology”, Seventh Five-Year Development Plan, State Planning Organization, 1993

Member, “Commission on Promotion and Evaluation of Scholarly Publications”, The Scientific and Technical Research Council of Turkey, 1993-1999.

Member of the committee to evaluate applicants for post-doctorate fellowship, The Scientific and Technical Research Council of Turkey, several years

Member of the committee to evaluate applicants for Ph.D. fellowship, The Scientific and Technical Research Council of Turkey, several years

Member of the committee to evaluate applicants for MS and Ph.D. fellowship, Fulbright, several years

Member of the committee to evaluate applicants for Fulbright Scholars, several years

Member, Board of Directors of the Operational Research Society, Turkey, 1991-1995

Founding Member, “METU-Turkish Air Force Research, Development, and Advanced Education Coordination Center”, 1990-1992

Founding Member, Publishing Board of “Endüstri Mühendisliği“, an IE Journal, 1989-95

HONORS/AWARDS/FELLOWSHIPS

Science Academy (Turkey) Inaugurated Member, 2024

August-Wilhelm Scheer Visiting Professorship Award and Honorary Fellow of Institute of Advanced Studies, Technical University of Munich, 2017-2018

OR Society, Turkey, 30th Anniversary Service Award, (YAD, 30. Yıl Hizmet Ödülü), 2005

Fulbright Scholar in the USA, 1995-96

Prof. Mustafa Parlar Foundation, Teşvik Ödülü (Young Researcher Award), 1993

NATO Ph. D. Fellowship, (1980-1983)

CONSULTING/APPLIED RESEARCH PROJECTS/GRANTS

1. Eti Food Manufacturing, Eskisehir, Consultant, Supply Chain Network Structure Design as a part of the Strategic Plan (2015-16).
2. Knauf, Ankara, Consultant, Market Size Determination for a Construction Technology (2010-11).
3. TOFAŞ, Bursa, Project Director, Production Planning with Information Updates (2008).
4. TOFAŞ, Bursa, Project Director, Spare Parts Inventory System Planning (2008).
5. Ozyegin University, Member of the Advisory Board for a New University, 2005-06.
6. Karar Danışmanlık, Ankara, Consultant, Strategic Plan for a Large Consultant Company (2003).
7. Technological Development Foundation of Turkey, Consultant, Technological capabilities of the Turkish Automotive Industry, 2002-2003
8. Efes Pilsen A.Ş., Istanbul, Turkey, Project Director, Subject: Sales Forecast for the Beer Demand in Turkey (2002).
9. Technological Development Foundation of Turkey, Member of the International Advisory Board, 2000.
10. Sabanci University, Consultant, Curriculum details for a new university, 1996-1997.

11. Technological Development Foundation of Turkey, Consultant, Strategic Plan for Technological Support (1997)
12. Sabanci University, Researcher, Setting educational objectives and a curriculum for a new university, 1996-1997.
13. Technological Development Foundation of Turkey, Researcher, Industrial Strategy 1995-2005 - A Proposal for Turkish Industry, 1995.
14. Arçelik Dishwasher Manufacturing Plant, Ankara, Consultant, Transforming Manufacturing Activities for Just-in-Time: Issues of Implementation and Planning (1995).
15. Anadolu Beer, Istanbul, Researcher, Sales Forecast for the Beer Demand in Turkey (1994-95).
16. Cement Industries, Ankara, Project Director, Analysis of Current Petrocoke Stocks and Suggestions for Petrocoke Procurement System for Cement Industries, Inc. (1994).
17. Scientific and Research Council of Turkey, Researcher, Implementation Problems and Solution Proposals in Scheduling and Storage of a Closed-Loop Automated System, 1993-94.
18. NATO Science for Stability Programme, Phase III, Researcher, Planning Grant for the Preparation of the Project Proposal of "Introduction of New Information, Production and Management Science Technologies to Small and Medium Sized Enterprises in Turkey" (1992).
19. Municipality of Metropolitan Ankara, Ankara Turkey, Researcher, Subject: Design of the Waste Management System (1990).
20. Ministry of Public-Works and Settlement, Ankara, Project Director, Analysis of the Production Activities in Prefabricated House Manufacturing for State Disaster Affairs (1988-89).
21. Municipality of Metropolitan Istanbul, Researcher, Scheduling of Waste Collection Activities Implementation and Training (1987-1988).
22. Municipality of Metropolitan Istanbul, Researcher, Design of Waste Management System (1985-1986).
23. Military Electronics Industry (ASELSAN), Ankara, Consultant, Organization and Planning for Proposal Preparation for Large Scaled International Bidding for Missile Manufacturing (1985).
24. Shaklee Corporation, San Francisco CA, Researcher, Subject: Multi-Echelon Inventory Planning (1982-83).

SERVICE AS AN EDITOR/REVIEWER

Have been on the editorial board/associate editor of the following journals:

Foundations and Trends in Technology, Information and Operations Management, Editorial Board, 2023 - ongoing

OR Spectrum, Associate Editor 2011 – ongoing

Flexible Services and Manufacturing Journal, Member of Editorial Board, 2010 – 2020

IIE Transactions, Associate Editor, 1998 – 2001, 2008 - 2010

Member of the Publishing Board of the "Transactions in Operational Research", the OR journal

of the Turkish Operational Research Society, 1993 - 2002
Transactions in Operational Research, the OR journal of the Turkish Operational Research Society, Associate Editor, 1993 - 2002
Member of the Founding Publishing Board of “Endüstri Mühendisliği“, an Industrial Engineering Journal of Chamber of Mechanical Engineers, Turkey, 1989-1995

Have been reviewing articles for the following journals, handbooks, conferences, and books for publishers:

Annals of OR, Canadian Journal of Information Sciences and Operations Research (INFOR), Computers and Industrial Engineering, Computers and Operations Research, Doğa Journal of Mathematics (Until 2011), Doğa, Türk Mühendislik ve Çevre Bilimleri Dergisi, (Turkish Journal of Engineering and Environmental Sciences), Endüstri Mühendisliği, European Journal of Operational Research, Flexible Services and Manufacturing Journal , IIE Transactions, Interfaces, International Journal for Flexible Manufacturing Systems, International Journal of Production Economics, International Journal of System Science, Management Science, Manufacturing and Service Operations Management (MSOM), METU Studies in Development/ODTÜ Gelişme Dergisi, Naval Research Logistics, OMEGA, Operations Research, OR Spectrum, Production and Operations Management, Robotics and Computer Integrated Manufacturing, Selçuk Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, Socio-Economic Planning, Toplum ve Bilim, Transactions of Operational Research

Have been reviewing books for: Wiley, Springer, Pearson – several years

The Handbook of Technology Management, John Wiley (2008)

Üretim Araştırmaları Sempozyumu (Operations Management Symposium) - several years, MSOM Conference – several years, ICORES Conference (2012-2022, 2024-ongoing)

Have been evaluating project proposals for the following organizations:

Beta Research School (The Netherlands), National Science Foundation (USA), Fulbright (USA), Scientific and Technical Research Council (Turkey) – until 2010, Technology Forecasting and Assessment Directorate, Technology Development Foundation (Turkey)

Have been book-reviewing for the following journals:

Operations Research Letters, European Journal of Operational Research, Endüstri Mühendisliği

Dissertation/Thesis Committee Member:

Served as a member in several M.Sc. Thesis and Ph.D. Dissertation Committees at:

Operations Management (Faculty of Business Administration), and Industrial Engineering (Faculty of Engineering) departments of Bilkent University, Koc University, Bogazici University, Osman Gazi University, Eindhoven Technology University, Arizona State University, Technical University of Munich; Mechanical Engineering, Environmental Engineering, Electrical and Electronics Engineering, Computer Engineering and Mathematics departments of METU, Computer Science Department of Bilkent University

Peer Review/Organizational Assessment:

Have been serving on committees established for promotion, selection, or nomination of individuals for universities in Turkey, USA, Europe, and Canada

Had served on committees established for promotion, selection, or nomination of individuals for organizations like Scientific and Technical Council of Turkey (until 2011), National Productivity Center, State Planning Organization, etc

Have been serving on committees established for screening individuals, publications, etc for possible awards for organizations like Turkish Academy of Sciences (until 2011), Science Academy (Turkey), Scientific and Technical Council of Turkey (Science Award, Young Investigator Award) (until 2010), Parlar Foundation (Distinction Award, Science Award, Young Investigator Award), Serhat Özyar Dissertation Award, INFORMS (Nicholson Prize, Best Poster), Judge for the 2026 POMS College of Supply Chain Management Best Student Paper Competition

Served as a member in teams to assess research centers for Technology Forecasting and Assessment Directorate, Scientific and Technical Research Council of Turkey (until 2010), and University Programs in Turkey and abroad.

CURRENT RESEARCH INTERESTS

- Supply Chain Management and Multi-echelon Inventory Theory
- Retail Systems: Modeling Inventory and Other Operational Problems
- Public-Interest Goods
- Production/Inventory/Scheduling Systems with applications

REFEREED JOURNAL PUBLICATIONS AND BOOK CHAPTERS

1. Gullu, R. and Erkip, N., Risk pooling under uncertainty, invited to contribute to the Encyclopedia in Operations Management, Elsevier, **accepted 2025**
2. Erkip, N.K., Inventory Theory with Heterogeneous Customers, Invited by Foundations and Trends in Technology, Information and Operations Management, **accepted 2025**
3. Demirci, E. Z., & Erkip, N. (2024). Integrating efforts for product development and market penetration. *European Journal of Operational Research*, 312(3), 927-937.
4. Güllü, R., & Erkip, N. (2024). Risk pooling under demand and price uncertainty. *European Journal of Operational Research*, 315(1), 120-129.
5. Çavdar, B., & Erkip, N. (2023). Word-of-Mouth on Action: Analysis of Optimal Shipment Policy When Customers are Resentful. *Omega*, 118, 102865.
6. Erkip, N. K. (2023). Can accessing much data reshape the theory? Inventory theory under the challenge of data-driven systems. *European Journal of Operational Research*, 308(3), 949-959.
7. Ozyoruk, E., Erkip, N. K., & Ararat, Ç. (2022). End-of-life inventory management problem: Results and insights. *International Journal of Production Economics*, 243, 108313.
8. Urlu, B., Erkip, N.K. (2021) Safety stock placement for serial systems under supply process uncertainty. *Flex Serv Manuf J* **32**, 395–424 (2020).
9. Demirci, E.Z., Erkip, N.K. Designing intervention scheme for vaccine market: a bilevel programming approach. *Flex Serv Manuf J* **32**, 453–485 (2020).
10. Erkan, H., Erkip, N.K. and Safak, O., “Collaborative Decision Making for Air Traffic Management: A Generic Mathematical Program for the Rescheduling Problem, *Computers & IE*,137, (2019)
11. Ahipasaoglu, O., Erkip, N., and Karasan, O. E., “The venue management problem: setting staffing levels, shifts and shift schedules at concession stands”, *Journal of Scheduling* 22, 1, 69-83 (2019)
12. Demirci, E.Z., and N. K. Erkip, “Designing an intervention strategy for public-interest goods: The California electric vehicle market case”, *Omega* 69, 53-69 (2017)
13. Atan, Z.I. and N. Erkip, “Note on “The Backroom Effect in Retail Operations”, *Production and Operations Management* 24, 11, 1833-1834, (2015)
14. O.O. Ozener, R. Gullu, and N. Erkip, "Near-Optimal Modified Base Stock Policies for the Capacitated Inventory Problem with Stochastic Demand and Fixed Cost", *Asia Pacific J of Operational Research*, 31, 1450019 (2014)
15. U. Ozen, N. Erkip, M. Slikker, "Stability and Monotonicity in Newsvendor Situations", *EJOR*, 218, 416-425 (2012)
16. I.S. Bakal, N. Erkip, R. Gullu, "Value of supplier's capacity information in a two-echelon supply chain", *Annals of Operational Research*, 191, 115-135 (2011)
17. Baykal-Gursoy, M., Erkip, N.K., “Forecasting for Inventory Planning under Correlated Demand”, Wiley Encyclopedia of Operations Research and Management Science, (2011) (Published Online: 14 JAN 2011 DOI: 10.1002/9780470400531.eorms0330)

18. Gel, E.S., Erkip, N. and Thulaseedas, A., “Economic Impact of Data Quality on Inventory Control Systems”, *IJPE*, 125, 153-166, 2010
19. Jemai Z., Erkip N., Dallery Y., “Contracting Under Uncertain Capacity: A Generalization”, *International Journal of Inventory Research*, 1, 2, pp. 125 -149, 2010.
20. Savaşaneril S. and N.K. Erkip, “An Analysis of Manufacturer Benefits under Vendor Managed Systems”, *IIE Transactions*, 42, 7, 455-477, 2010.
21. Tan T., Gullu R., Erkip N. , “Using imperfect advance demand information in ordering and rationing decisions”, *IJPE*, 121 665-677 2009.
22. Tan, T., Gullu, R. and Erkip, N., “Modelling Imperfect Advance Demand Information and Analysis of Optimal inventory”, *EJOR*, Volume: 177, pp. 897-923, 2007.
23. Bayindir P., Erkip, N. and Gullu, R., “Assessing the benefits of remanufacturing option under one-way substitution and capacity constraint”, *Computers & Operations Research*, Volume 34, Issue 2, Pages 487-514, 2007.
24. Gullu, R., Houtum, G.J.J.A.N. van, Alisan, Z. and Erkip, N., “Analysis of a decentralized supply chain under partial cooperation”, *Manufacturing and Service Operations Management*, Vol. 7, and No: 3, pp. 229-247, 2005.
25. Bayindir P., Erkip, N. and Gullu, R., “Assessing the benefits of remanufacturing option under one-way substitution”, *Journal of Operational Research Society*, Vol. 56, No. 3, pp. 286-296, 2005.
26. Alp O., Erkip, N. and Gullu, R., “Optimal Lot Sizing/Vehicle Dispatching Policies under Stochastic Lead Times and Stepwise Fixed Costs”, *Operations Research*, Volume: 51, No: 1, pp. 160-166, 2003.
27. Alp O., Erkip, N. and Gullu, R., “Outsourcing Logistics: Designing Transportation Contracts Between a Manufacturer and a Transporter”, *Transportation Science*, Volume: 37, No: 1, pp. 23-39, 2003.
28. Bayindir P., Erkip, N. and Gullu, R., “A Model to Evaluate Inventory Costs in a Remanufacturing Environment”, *International Journal of Production Economics*, Volume: 81-82, pp. 597-607, 2003.
29. Erkip, N., “Üniversitelerin geleceği nasıl şekillenecek? Tartışma başlatmaya yönelik düşünceler”, (In Turkish - Thoughts to motivate discussion on the future of universities), *Toplum ve Bilim*, Vol: 97, pp. 247-259, Summer 2003
30. Argon, N. T., Gullu, R. and Erkip, N., “Analysis of an Inventory System under Backorder Correlated Deterministic Demand and Geometric Supply Process”, *International Journal of Production Economics*, Volume: 71, pp. 247-254, 2001.
31. Atlihan, M. K., Kayaligil, S. and Erkip, N: “A Generic Model to Solve Tactical Planning Problems in Flexible Manufacturing Systems”, *International Journal of Flexible Manufacturing Systems*, Volume: 11, No: 3, pp. 215-243, 1999.
32. Koksalan, 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.
33. Gullu, R., Onol, E., and Erkip, N., “Analysis of an Inventory System under Supply Uncertainty”, *International Journal of Production Economics*, Volume: 59, pp. 377-385, 1999.
34. Gullu, R., Onol, E. and Erkip, N. “Analysis of a Deterministic Demand Production/Inventory System under Nonstationary Supply Uncertainty”, *IIE Transactions*, Volume: 29, No: 8, pp. 703-709, 1997.

35. Gullu, R. and Erkip, N., "Optimal Allocation Policies in a Two-Echelon Inventory Problem with Fixed Shipment Costs", *International Journal of Production Economics*, Volume: 46-47, pp. 311-321, 1996.
36. Hausman, W.H. and Erkip, N., "Multi-Echelon v.s. Single-Echelon Inventory Control Policies for Low Demand Rates", *Management Science*, Volume: 40, No: 5, pp. 597-602, 1994.
37. Terzi (Toker), A., Kondakci, S. and Erkip, N., "Jobshop Scheduling under a Nonrenewable Resource Constraint", *Journal of Operational Research Society*, Volume: 45, No: 8, pp.185-187, 1994.
38. Erkip, N., "An Optimization Model to Find Fleet Size", *Transactions on Operational Research*, Volume: 5, No: 2, pp. 93-102, 1993.
39. Sural, H., Kondakci, S. and Erkip, N., "Scheduling Unit-Time Tasks in Renewable Resource Constrained Flowshops", *ZOR- Methods and Models of Operations Research*, Volume: 36, No: 6, 1992.
40. Toker, A., Kondakci, S. and Erkip, N., "Scheduling Under a Non-renewable Resource Constraint", *Journal of Operational Research Society*, Volume: 42, No: 9, pp. 811-814, 1991.
41. Meral, S., and Erkip, N., "Analysis of a JIT Production Line and Simulation Results", *International Journal of Production Economics*, Volume: 24, pp. 147-156, 1991. (Formerly Journal of Engineering Costs and Production Economics)
42. Erkip, N. and Kirca, O., "Solid Waste Management Systems: An Approach for Analysis and System Design", *The Journal of Resource Management and Technology*, Volume: 19, No: 2, pp. 63-67, 1991.
43. Kirca, O. and Erkip, N., "Bilgisayar Destekli Çöp Toplama Yönetim ve Kontrol Sistemi", *Endüstri Mühendisliği*, Volume: 2, No: 10, 1991, (In Turkish-Computer Aided Management and Control System for Waste Collection).
44. Erkip, N. and Kirca, O., "Katı Atık Yönetim Sistemi Tasarımı", *Endüstri Mühendisliği*, Volume: 2, No: 5, pp. 14-20, 1990. (In Turkish-Design of a Waste Management System).
45. Erkip, N., and Meral, S., "Queueing Network Models For FMS", in *Queueing Theory and Applications*, Ed. by S. Özekici, Hemisphere Publishing Corporation, New York, 1990.
46. Erkip, N., Hausman, W. H. and Nahmias, S., "Optimal Centralized Ordering Policies in Multi-Echelon Inventory Systems with Correlated Demands", *Management Science*, Volume: 36, No: 3, pp. 381-392, 1990.
47. Kirca, O. and Erkip, N., "Selecting Transfer Station Locations for Large Solid Waste Systems", *EJOR*, Volume: 38, pp. 339-349, 1988.
48. Erkip, N., "Stok Hareketinin Verimliliğe Etkisi", *Makina Tasarım ve İmalat Dergisi*, Volume: 1, No: 3, 1987, (In Turkish- Effects of Stock Movement to Productivity-An Overview of Inventory Systems).
49. Erkip, N., "Stok Takip ve Kontrolde Bilgisayar Kullanımı", *Makina Tasarım ve İmalat Dergisi*, Volume: 1, No: 3, 1987, (In Turkish- Use of Computers in Inventory Accounting and Control).
50. Erkip, N. and Erkan, N., "Ulusal Verimlilik Yaklaşımında Ergonomi", *Verimlilik*, Volume: 8, No: 3, 1979, (In Turkish-Ergonomics and National Productivity).

PUBLICATIONS IN CONFERENCE PROCEEDINGS/EDITED BOOKS

49. Savaşaneril, S. and N.K. Erkip, “An Analysis of Manufacturer Benefits under Vendor Managed Systems”, MSOM Proceedings, 2009
50. Erkip N.K., O. Alp, A. Şen and E.Z. Demirci, “Aggregate Production Planning Revisited: An Industrial Application Bringing in Research Questions”, MSOM Proceedings, MIT, 2009
51. Jemai, Z., Erkip, N. and Dallery, Y., “Contracting Under Uncertain Capacity”, Proceedings for the International Conference on Information Systems, Logistics and Supply Chain, Lyon, France, May 15-17, 2006.
52. Ozlen, M., Erkip N., and Gullu, R., “Kontrat Değerlendirme Modeli: Belli ve Değişken Talep Ortamında Fason Üretim”, Proceedings of the 24th National OR/IE Conference, Gaziantep - Adana, Turkey, June, 2004 (In Turkish - A Model for Contract Evaluation: Subcontracting Under Dynamic Deterministic Demand Environment).
53. Erkip, N., “Tedarik Zincirlerine Envanter Sistemleri Ağırlıklı Bir Bakış”, in Operations Research, A Book Edited in the Honor of Halim Doğrusöz, (Yöneylem Araştırması: Halim Doğrusöz’e Armağan), N. Erkip and M. Koksalan (editors), ODTÜ Basım İşliği, 2002, (in Turkish), pp.140-160, 2002 (In Turkish- Supply Chains: An Inventory Systems Oriented Outlook).
54. Erkip, N., Kocabiyikoglu, A. and Gullu, R., “A Quasi-Birth-and-Death Model to Evaluate Fixed Cycle Time Policies for Stochastic Multi-Item Production/Inventory Problem”, Proceedings of MSOM Conference, Ann Harbor, Michigan, USA, June 2000.
55. Erkip, N. and Yano, C., “When Should We Dispatch Trucks with Unreliable Transit Times?” 1996 MSOM Conference Proceedings, pp. 341-346, Hanover, New Hampshire, USA, 1996.
56. Gullu, R. and Erkip, N., “Optimal Allocation Policies in a Two-Echelon Inventory Problem with Fixed Shipment Costs”, Proceedings of the Eighth International Working Seminar on Production Economics, Volume: 2, pp. 41-48, Innsbruck, Austria, 1994. (An earlier version of Gullu, R. and Erkip, N., “Optimal Allocation Policies in a Two-Echelon Inventory Problem with Fixed Shipment Costs”, IJPE, 1996.)
57. Toker, A. and Erkip, N. “Multi-Stage Economic Lot Scheduling Problem: Analysis of Simple Cases”, Proceedings of the Second International Conference on Computer Integrated Manufacturing, ICCIM'93, Supplement pp. 33-38, Singapur, 1993.
58. Tokol, G., Erkip, N., Koksalan, M. M. and Sepil, C., “Some Results of Several Variations of Batch Means Method”, Proceedings of the IASTED International Conference on Modelling and Simulation, Ed: M. H. Hamza, Pittsburgh, pp.58-61, 1993.
59. Sepil, C., Sural, G. T., Koksalan, M. M. and Erkip N., “A Review of Batch Means Procedures for Simulation Output Analysis”, Proceedings of the Advances of Simulation '92 Symposium, eds. A.R. Kaylan, T. Oren, p.119-127, 1992.
60. Dincer, C. and Erkip, N., “Tam Zamanında Üretim Sistemleri: Felsefesi ve Öngördüğü İyileştirmenin Modellenmesi”, Proceedings of the 13th National OR/IE Conference, Invited paper, pp. 45-64, METU, Ankara, 1991, (In Turkish- Just-In-Time Production Systems: Philosophy and Modeling the Suggested Continuous Improvement).
61. Meral, S., and Erkip, N., “Design and Analysis of a Just-In-Time Production Line”, In the Proceedings of the International Conference on Just-In-Time Manufacturing Systems, Ed. by A. Şatır, Elsevier Publications, Manufacturing Research and Technology, pp. 61-79, 1991.

62. Kirca, O. and Erkip, N., “Municipal Waste Collection System: Design and Implementation”, Proceedings of The Sixth International Conference on Solid Waste Management and Secondary Materials, Philadelphia, December 1990.
63. Erkip, N. and Kirca, O., “Solid Waste Management Systems: An Approach for Analysis and System Design”, Proceedings of The Sixth International Conference on Solid Waste Management And Secondary Materials, Philadelphia, December 1990, (Same as Erkip, N. and Kirca, O., “Solid Waste Management Systems: An Approach for Analysis and System Design”, The Journal of Resource Management and Technology, Volume: 19, No: 2, pp. 63-67, 1991).
64. Erkip, N., “Envanter Teorisi ve Uygulaması: Bazı Gözlemler”, Proceedings of the 12 th National OR Conference, Invited paper, pp. 37-59, Meteksan, Ankara, 1989, (In Turkish- Inventory Theory and Practice: Some Observations).
65. Sural, H., Kondakci, S. and Erkip, N., “Kaynak Kısıtlı Seri İş Akışlı Sistemlerde Çizelgeleme Problemi”, in the Proceedings of the National IE Conference '88, 1988, (In Turkish- Scheduling Problem in Renewable Resource Constrained Flowshops).
66. Unal, Y., Erkip, N. and Koksalan, M. “A New Sequential Procedure for the Analysis of Simulation Output”, Proceedings of the International AMSE Conference on Modelling and Simulation, Istanbul, 1988.
67. Erke, Y., Erkip, N., Karabakal, N., Kirca, O., Saatcioglu, O., Sural, H. and Toker, A., “Çöp Araçları Çizelgeleme Sistemi Tasarımı ve Uygulaması”, in the Proceedings of the 11th National OR Conference, Istanbul, 1986, (In Turkish- A Scheduling System For Waste Collection: Design and Application).
68. Erkip, N., Sural, H. and Toker, A., “Çöp Miktarı Tahmini için Bir Yöntem ve İstanbul Uygulaması,” in the Proceedings of the 11th National OR Conference, Istanbul, 1986 (In Turkish- An Approach to Estimate Waste Generation and Application to Istanbul).

MANUSCRIPTS UNDER REVIEW, REVISION AND PREPARATION

Atan, Z., Ercan, M., Erkip, N. and Woensel, T. Retail Inventory Management with Shelf Space Constraint and Backroom Effect, second Revision, to be resubmitted by January 2026,

Ketzenberg, M., Lee, S., Oh, H.K., and Erkip, N., Consumer Food Waste in Retail Operations (Reject and resubmit), first revision, to be resubmitted by January 2026

Sindermann, K., Gel E., and Erkip, N., Optimal Replenishment Policies for Industrial Vending Machines, under review

Erkip, N.K. and Tilson, V., Analysis of One Depot Multiple Retailers Humanitarian Distribution System, under review

Lee, S., Ketzenberg, M. and Erkip, N., Retail Markdown Pricing and Early Salvaging to Manage Food Waste, under review

Gullu, R. and Erkip, N., On (S-1,S) Inventory Model with Delay Sensitive Heterogeneous Customers, expected submission date: early 2026

Sindermann, K., Gel E., and Erkip, N., Economics of VMI with Vending Machines, expected submission date: early 2026

Çavdar B., and Erkip N. Capacity Allocation in Service Systems under Endogenous Demand, preparing draft, expected submission date: late 2026

Erkip, N. and Karaer, Ö., Product Feature Selection under Consumer Choice with Inventory Considerations, preparing draft, expected submission date: late 2026

Erkip, N.K. and Tilson, V., Lost Sales Inventory Problem Under a Purchase Budget Constraint with Random Material Waste, preparing draft, expected submission date: late 2026

Ketzenberg, M., Lee, S. and Erkip, N., Retail Food Pricing and Waste, preparing draft, expected submission date: mid-2026

EDITED BOOKS

1. Proceedings of EurOMA 2007, 14th International Annual EurOMA Conference, Ankara, N. Acur, N. Erkip and E.D. Güneş (editors), Ankara, Bilkent University, Ankara , 2007. (ISBN: 978-975-6090-23-7).
2. Operations Research, A Book Edited in the Honor of Halim Doğrusöz, (Yöneylem Araştırması: Halim Doğrusöz'e Armağan), N. Erkip and M. Koksalan (editors), ODTÜ Basım İşliđi, 2002, (in Turkish). (ISBN: 975-429-202-7)
3. Proceedings of the Operations Research and Industrial Engineering Conference '90, N. Erkip and M. Koksalan (editors), 1991, (in Turkish).
4. Proceedings of the Seminar on Productivity, Cyprus '85, O. Saatcioglu, N. Erkip and M. Koksalan (editors), 1985, (in Turkish).

CITED UNPUBLISHED WORK/TECHNICAL REPORTS

1. Woensel, T Van, Erkip, N, A Curseu, A, Fransoo, JC, “Lost Sales Inventory Models with Batch Ordering and Handling Costs”, 2013
2. Kayhan, M., Gullu, R. , Erkip, N., “Integrating forecast evolution with production/inventory planning: an implementation framework for a fast-moving consumer goods manufacturer”, Working Paper, Ankara: Middle East Technical University, 2005
3. Karaesmen, I., Erkip, N. and Gullu, R., “A Generalization of Supply Disruption Problem Under Static Demand”, Technical Report No: 95-02, Industrial Engineering Department, METU, 1995.
4. Erkip, N., “Tam Zamanında Üretim Felsefesi ve Tekstil Endüstrisine Uygulaması”, Technical Report No: 93-19, Industrial Engineering Department, METU, 1993, (In Turkish- Just-in-Time Manufacturing Philosophy: Implications for Turkish Textile Sector - Also published in Tekstil İşveren, No: 175, September-October, 1993).
5. Kirca, O., Erkip, N., Sandikci, B. and Yurteri, C., “Location Selection of Landfill Sites and Transfer Stations: An Application”, Technical Report No: 92-01, Industrial Engineering Department, METU, 1992.
6. Kayaligil, S. and Erkip, N., “Part-Mix Partitioning in a Single-Stage Automated Manufacturing”, Technical Report No: 90-09, Industrial Engineering Department, METU, 1990, (Revised September 1990).
7. Timurcin, M., Yasa, C., Erkip, N. and Kayaligil, S., “A Decision Support System

- Application in a Make-To-Order Flow Shop”, Technical Report No: 89-04, Industrial Engineering Department, METU, 1989.
8. Meral, S. and Erkip, N., “Tam Zamanında Üretim Sistemlerinin Klasik Üretim Sistemleri ile Karşılaştırılması”, Technical Report No:88-10, Industrial Engineering Department, METU, 1988, (In Turkish- Just-in-time Production Systems-A Comparison with Classical Production Systems).
 9. Koksalan, M. and Erkip, N., “Estimating Percentiles of a Performance Measure in Simulation”, Technical Report No: 86-06, Industrial Engineering Department, METU, 1986, (Revised: 1987).
 10. Erkip, N., “A Restricted Class of Allocation Policies in a Two-Echelon Inventory System”, Technical Report No: 682, SORIE, Cornell University, 1984.

PRESENTATIONS

Selected Invited Presentations:

- Department of Business Administration, University of Zurich, Zurich, 2025
- ISE, Rensselaer Polytechnic Institute, Troy, 2024
- SCMA Department, University of Nebraska, Lincoln, 2024
- IFORS 2023, Invited Tutorial, Santiago, 2023
- Simon School of Business, University of Rochester, Rochester, 2023
- METU, Department of Industrial Engineering, Ankara 2020
- ISIR Summer School, Leuven 2019
- University of Mannheim, Mannheim, 2018
- Technical University of Munich, Munich, 2017
- METU, Department of Industrial Engineering, Ankara 2017
- Sabancı University, Istanbul, 2017
- Technical University of Munich, Munich, 2016
- TEDx, Bilkent University, Ankara, 2016
- Doctoral Colloquium, Operational Research Society Turkey, Istanbul, 2016
- METU Institute of Applied Mathematics, Ankara 2015
- National IE/OR Conference Ankara, Turkey, 2015 (Invited Tutorial)
- Rutgers University, Newark, 2012
- Rutgers University, New Brunswick, 2012
- Stern School of Business, New York University, New York, 2011
- ISIR Summer School, Istanbul, 2011
- Bilkent University, Faculty of Science, Ankara, 2011
- METU Informatics Institute, Ankara 2010
- National IE/OR Conference Istanbul, Turkey, 2010 (Invited Tutorial)
- MIT – Zaragoza, Zaragoza, 2010
- Doctoral Colloquium, Operational Research Society Turkey, Ankara, 2009
- Lund University, Lund 2009
- European Supply Chain Forum, Eindhoven, 2009
- Queensland University of Technology, Brisbane, 2008
- Columbia University, New York, 2007
- METU, Ankara, 2007
- Workshop on Cooperative games in operations management/research, Technische Universiteit Eindhoven, 2007

Master Class, The Third International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, (CP-AI-OR'06), Cork, 2006
Cork Constraint Computation Center, University College Cork, 2006,
Texas A&M University, College Station, 2005
Arizona State University, Tempe, 2005
Helsinki School of Economics, Helsinki, 2004
Ecole Centrale, Paris, 2004
Doctoral Colloquium, Congress for Young Statisticians, Izmir, 2003
Erasmus University, Rotterdam, 2003
Doctoral Colloquium, Operational Research Society Turkey, Ankara, 2002
New York University, New York, 2002
Koc University, Istanbul, 2001
Bogazici University, Istanbul, 2000
University of Washington, Seattle, 1998
Koc University, Istanbul, 1998
Technical University of Eindhoven, Eindhoven, 1997
Tilburg University, Tilburg, 1997
Purdue University, West Lafayette, 1992
INSEAD, Paris, 1991
Phillips Laboratories, Briarcliff, 1989
University of Florida, Gainesville, 1988
University of Missouri-Rolla, Rolla, 1988

Presentations at Conferences:

Over 100 presentations at various conferences including INFORMS, MSOM, EURO, and National OR Conferences.

Recent conference presentations:

(With Ayşe Duman and Sibel Salman) “Evaluating Earthquake R&D Efficiency in Turkey and other Earthquake Prone Countries Using Data Envelopment Analysis”, Trabzon, YAEM, October 2024

RESEARCH/PROJECT REPORTS

1. Erkip N., Alp, O., “Bir İnşaat Altsektöründe Pazar Büyüklüğünün Saptanması”, Final Report, Ankara, 2010 (In Turkish- Forecasting Market Size for a Subsector under Construction Industry).
2. Erkip, N., Fadiloğlu, M., Bulut, Ö., “TOFAŞ - Yedek Parça Sipariş ve Stok Planlama”, Final Report, Ankara, 2009 (In Turkish – Procurement and Inventory Planning for TOFAS Spare-Part Inventory System)
3. Erkip, N., Alp, O., Sen, A. and Demirci, E.Z., “Ticari PO ve Diğer Birimlerden Gelen Bilgiler Çerçevesinde Versiyon Bazında Üretim Miktarlarının Planlanması”, Final Report, Ankara, 2009 (In Turkish- Aggregate Production Planning based on Versions).
4. Erkip, N., Gullu, R., Sural, H and Eliyi, D.T., “Türkiye'deki Bira Satış Tahmin Projesi”, Final Report, Ankara, 2002, (In Turkish- Sales Forecast for the Beer Demand in Turkey).
5. Durgut, M., Erkip, N., Ozgun, B. and Taymaz, E., (in alphabetical order), “Technology Development Fund of Turkey: A Strategic Plan Proposal”, Technology Development

- Foundation of Turkey, August 1997, prepared as a proposal for funding from the World Bank.
6. Ataman, N. K., Baburoglu, O., Durgut, M., Erkip, N., and Ger, M., “Industrial Strategy 1995-2005, A Proposal for Turkish Industry”, Technology Development Foundation of Turkey, 1995, (An English summary of Ataman, N. K., Baburoglu, O., Durgut, M., Erkip, N., and Ger, M., “Sanayi Stratejisi 1995-2005”, Technology Development Foundation of Turkey, 1995, prepared for discussion at the II. Industry Congress, Ministry of Industry and Trade).
 7. Ataman, N. K., Baburoglu, O., Durgut, M., Erkip, N., and Ger, M., “Sanayi Stratejisi 1995-2005”, Technology Development Foundation of Turkey, 1995, (prepared for discussion at the II. Industry Congress, Ministry of Industry and Trade). (In Turkish-Industrial Strategy 1995-2005)
 8. Koksalan M., Erkip, N. and Tufekci, T., “Türkiye'deki Bira Talebinin Tahmini”, Final Report, Ankara, 1995, (In Turkish- a Sales Forecast Study for the Beer Demand in Turkey).
 9. Kayaligil, S., Erkip, N. and Ozyildirim, S., “Kapalı Çevrimli bir Otomatik Sistemde İşletme ve Depolama Uygulama Problemleri ve Çözüm Önerileri”, Research Report No: MİSAG-14, Scientific and Research Council of Turkey, 1995, (In Turkish-Implementation Problems and Solution Proposals in Scheduling and Storage of a Closed-Loop Automated System).
 10. Erkip, N. and Gullu, R., “Çitosan Fabrikaları Petrokok Stokları ve Petrokok Satın Alınmasına İlişkin Çalışma ve Öneriler”, Final Report, Ankara, 1994, (In Turkish-Analysis of Current Petrocoke Stocks and Suggestions for Petrocoke Procurement System for Cement Industries, Inc.).
 11. Koksalan, M. M., Erkip, N. and Saatcioglu, O., “Introduction of New Information, Production and Management Science Technologies to Small and Medium Sized Enterprises in Turkey”, Project Plan prepared for the NATO Science for Stability Programme III, December 1992.
 12. Kirca, O. et al, “Ankara Büyükşehir Belediyesi Katı Atık Yönetim Sistemi Tasarımı Projesi”, Executive Summary, Ankara, 1990, (In Turkish- Solid Waste Management System Design for Ankara Metropolitan Municipality).
 13. Kirca, O. et al., “Ankara Büyükşehir Belediyesi Katı Atık Yönetim Sistemi Tasarımı Projesi”, Final Report, Ankara, 1990, (In Turkish- Solid Waste Management System Design for Ankara Metropolitan Municipality).
 14. Kirca, O. et al., “Ankara Büyükşehir Belediyesi Katı Atık Yönetim Sistemi Tasarımı Projesi”, Second Progress Report, Ankara, 1990, (In Turkish- Solid Waste Management System Design for Ankara Metropolitan Municipality).
 15. Kirca, O. et al., “Ankara Büyükşehir Belediyesi Katı Atık Yönetim Sistemi Tasarımı Projesi”, First Progress Report, Ankara, 1990, (In Turkish- Solid Waste Management System Design for Ankara Metropolitan Municipality).
 16. Erkip, N. et al, “T.C. Bayındırlık ve İskan Bakanlığı Afet İşleri Genel Müdürlüğü Prefabrike Yapı Elemanları Fabrikaları Sistem Analizi Projesi”, Final Report, Ankara, 1989, (In Turkish- Systems Analysis Project of Prefabricated Building Element Factories, Republic of Turkey, Ministry of Public Works and Settlement, General Directorate of Disaster Affairs).
 17. Erkip, N. et al, “T.C. Bayındırlık ve İskan Bakanlığı Afet İşleri Genel Müdürlüğü Prefabrike Yapı Elemanları Fabrikaları Sistem Analizi Projesi”, First Progress Report,

- Ankara, 1988, (In Turkish- Systems Analysis Project of Prefabricated Building Element Factories, Republic of Turkey, Ministry of Public Works and Settlement, General Directorate of Disaster Affairs).
18. Saatcioglu, O. et al, "Istanbul Büyükşehir Belediyesi Çöp Toplama Yönetim Sistemi Uygulaması Danışmanlık Projesi", Second Progress Report, Ankara, 1988, (In Turkish-Implementation of the Solid Waste Collection Management System for Istanbul Metropolitan Municipality).
 19. Saatcioglu, O. et al, "Istanbul Büyükşehir Belediyesi Çöp Toplama Yönetim Sistemi Uygulaması Danışmanlık Projesi", First Progress Report, Ankara, 1987, (In Turkish-Implementation of the Solid Waste Collection Management System for Istanbul Metropolitan Municipality).
 20. Saatcioglu, O. et al, "Istanbul Büyükşehir Belediyesi Temizlik ve Çöp Toplama Yönetim Sistemi Tasarımı Projesi", Final Report, Ankara, 1986, (In Turkish-Solid Waste Management System Design for Istanbul Metropolitan Municipality).
 21. Saatcioglu, O. et al, "Istanbul Büyükşehir Belediyesi Temizlik ve Çöp Toplama Yönetim Sistemi Tasarımı Projesi", Third Progress Report, Ankara, 1986, (In Turkish- Solid Waste Management System Design for Istanbul Metropolitan Municipality).
 22. Saatcioglu, O. et al, "Istanbul Büyükşehir Belediyesi Temizlik ve Çöp Toplama Yönetim Sistemi Tasarımı Projesi", Second Progress Report, Ankara, 1986, (In Turkish- Solid Waste Management System Design for Istanbul Metropolitan Municipality).
 23. Saatcioglu, O. et al, "Istanbul Büyükşehir Belediyesi Temizlik ve Çöp Toplama Yönetim Sistemi Tasarımı Projesi", First Progress Report, Ankara, 1985, (In Turkish- Solid Waste Management System Design for Istanbul Metropolitan Municipality).

THESES SUPERVISED

Doctor of Philosophy - Industrial Engineering, Bilkent University:

1. Designing Intervention Strategy for Public-Interest Goods by E. Demirci 2016.
Employment: TED University

Doctor of Philosophy – OPAC Department/Eindhoven Technical University:

2. Lost Sales Inventory Systems for Retail Industry by A. Curseu, (with J. Fransoo and T. Van Woensel), 2011. Employment: Industry

Doctor of Philosophy - Industrial Engineering, METU:

3. Integrating Multi-Period Quantity Flexibility Contracts with a Capacitated Production and Inventory Planning, by Mehmet Kayhan, METU, 2008, (with S. Kayaligil).
Employment: Industry
4. The Impact of Advanced Demand Information on Inventory Policies, by T. Tan, METU, 2002, (with R. Gullu). Employment: University of Zurich, Zurich
5. Analytical Models for Assessing Benefits of Remanufacturing, by Z. P. Bayindir, METU, 2002, (with R. Gullu). Employment: Middle East Technical University, Ankara
6. Design and Analysis of Contracts between a Manufacturer and a Transporter, by O. Alp, METU, 2000, (with R. Gullu). Employment: University of Calgary, Calgary
7. Common Cycle Multi-Stage Economic Lot Scheduling Problem, by A. Toker Terzi, METU, 1994. Employment: Sabanci University, Istanbul
8. A Design Methodology for Just-in-Time Production Lines, by S. Meral, METU, 1993.
Employment: Middle East Technical University, Ankara

Master of Science – Industrial Engineering, Bilkent University:

1. Implementing Condition-based Maintenance: Optimizing Maintenance Decisions in multi-component systems using Markov Decision Processes, 2021, by Mahsa Abbaszadeh Nakhost (with Pelin Bayındır). Employment: PhD student, TUM, Munich
2. Data-driven Two-stage Inventory Problem, 2021, by Simay A. Çolak. Employment: Industry
3. End-of-Life Inventory Management Problem: New Results and Insights, 2020, by Emin Özyörük (with C. Ararat). Employment: PhD student, Chicago University, Chicago
4. Assortment Planning with Premium Services, by E. I. Akcokus, 2018, (with A. Sen). PhD student, UCLA, Los Angeles
5. Integrated Production, Transportation and Storage Policies with Carbon Costs”, by B. Erman, 2018 (with U. Gurler). Employment: Industry
6. Shipment Consolidation Under Different Delivery Date Options For E-tailing, by T. Vural, 2015. PhD, Employment: Industry
7. Coordination Problems with Robust Objective Functions, by E. Haliloglu, 2013. Employment: Industry
8. End-of-life Spare Part Inventory Control by S. Cay, 2013. PhD, Employment: Industry
9. Analysis of an Inventory System with Returns by I. Erikci, 2012. Employment: Industry
10. Product Rollover Strategy and Inventory Policy of a Monopoly Manufacturing Substitutable Products by Esmâ Koca, 2010. PhD, Employment: Academia
11. Order Timing with Seasonal Products by E. Demirci, 2010, (with A. Sen). PhD, Employment: Academia

Master of Science, OML, Eindhoven Technical University:

1. A Decision Analysis Model for Multiple Investment Scenarios in the Long-term, by B. van Donkelaar, 2018, (with M. Udenio). Employment: Industry

Master of Engineering -Industrial Engineering and Operations Research, Cornell University:

1. A Simulation and Model for Composite Board Manufacture, (by B. Boling, D. Santoni and A. Thomas), Cornell University, 1984.
2. The Logistics of Ingot Inversion, (by D. Goldfarb, G. G. Hwa, B. Kuo and J. Milne), Cornell University, 1984 (with L.W. Shruben).

Master of Science - Industrial Engineering/Operations Research, METU:

1. Analysis of Serial Inventory Systems under Non-stationary Demand, (by F. Baskan), METU, 2004, (with R. Gullu). PhD, Employment: Academia
2. Analysis of Safety Stock for Production-Inventory Problem of a Company under Multiplicative Form of Forecast Evolution, (by M. Kayhan), METU, 2003, (with R. Gullu). PhD, Employment: Industry
3. Value of Supplier’s Capacity Information in a Two-Echelon Supply Chain, (by I. S. Bakal), METU, 2003, (with R. Gullu). PhD, Employment: Academia
4. A Model for Contract Evaluation: Subcontracting Under Dynamic Deterministic Demand Environment, (by M. Ozlen), METU, 2003, (with R. Gullu). PhD, Employment: Academia
5. A Capacitated Inventory Model with a Fixed Ordering Cost Under Stochastic Demand, (by O. O. Ozener), METU, 2003, (with Refik Gullu). PhD, Employment: Academia

6. Modeling the Effect of promotions on the Supply Chain of FMCG, (by Bolukbasi), METU, 2003. Employment: Industry
7. A Two-Echelon Inventory Problem with Recoverable Items, (by L. Tavsanci), METU, 2002. Employment: Industry
8. Analysis of an Assembler-Distributor Network under Revenue Sharing and Wholesale Price Contracts, (by U. Ozen), METU, 2002, (with R. Gullu). PhD, Employment: Academia
9. A Serial Two Echelon Inventory System with Waiting Time Restriction, (by M. K. Dogru), METU, 2002, (with R. Gullu). PhD, Employment: Industry
10. A Two-Echelon Inventory Model with Partial Cooperation, (by F. Z. Alisan), METU, 2002, (with R. Gullu). PhD, Employment: Academia
11. A Quasi-Birth-and-Death Model to Evaluate Fixed Cycle Time Policies for Stochastic Multi-Item Production/Inventory Problem, (by A. Kocabiyikoglu), METU, 2000, (with R. Gullu). PhD, Employment: Academia
12. A Realistic and Easily Implementable Inventory Control Policy for Two-Stage Serial Systems, (by H. Melike (Tekinalp) Korkmazel), METU, 1999, (with R. Gullu). Employment: Industry
13. Analysis of a Production/Inventory System under Backorder Correlated Demand, (by S. Nilay (Tanik) Argon), METU, 1998, (with R. Gullu). PhD, Employment: Academia
14. Comparison of Multi-Echelon Inventory Policies, (by Zeynep Pelin (Bayindir) Izmirli), METU, 1997, (with R. Gullu). PhD, Employment: Academia
15. Analysis of the Multi-Item Fixed Cycle Time Inventory Policy Under Single Resource, (by Suna Hafizogullari), METU, 1997, (with R. Gullu). PhD, Employment: Industry
16. An Analysis of a Production/Inventory System Under Supply Uncertainty, (by E. Onol), METU, 1995, (with R. Gullu). Employment: Industry
17. Modelling Emergency Resupply for Two-Echelon Inventory Systems, (by M. Akarsu), METU, 1995 (with R. Gullu). Employment: Industry
18. Development of a Generic Model to Solve Tactical Planning Problems in Flexible Manufacturing Systems, (by M. K. Atlihan), METU, 1994 (with S. Kayaligil).
19. Modeling Disruptions in Supply under Static Demand, (by I. Karaesmen), METU, 1994, (with R. Gullu). PhD, Employment: Academia
20. A Study on Optimal Policy Surfaces: Continuous Review Inventory Models, (by A. T. Mustu), METU, 1994. Employment: Industry
21. Capacity Analysis in a Serial Production Line, (by O. Baygin), METU, 1993. Employment: Industry
22. Operational Comparison of Flexible Flow Systems with Conventional Flow Systems, (by T. Bilgic), METU, 1990. PhD, Employment: Academia
23. Loading Policies in Flexible Manufacturing Systems: A Comparative Study, (by C. Tunasar), METU, 1990. Employment: Industry
24. A Decision Support System for Due-Date Management in a Manufacture-to-order Flow Shop, (by C. Yasa), METU, 1989 (with S.Kayaligil). Employment: Industry
25. A Decision Support System for Rescheduling in Manufacture-to-Order Flow Shop Environment, (by M. Timurcin), METU, 1989 (with S.Kayaligil). Employment: Industry
26. Analysis of a Two-Echelon Inventory System with Fixed Shipment Costs, (by R. Gullu), METU, 1989. PhD, Employment: Academia
27. Inventory Problems under Seasonal Stochastic Demand Pattern, (by E. B. Dogusoy), METU, 1988. Employment: Industry

28. Job Shop Scheduling Under Nonrenewable Resource Constraint, (by A. Toker), METU, 1988 (with S. Kondakci). PhD, Employment: Academia
29. Resource Constraint Flowshop Scheduling: Unit-Processing Time Problems, (by H. Süral), METU, 1988 (with S. Kondakci). PhD, Employment: Academia
30. Stochastic Feed-Mix Problem, (by S. Eren), METU, 1987. Employment: Industry
31. Response Errors in Multi-Criteria Decision Making, (by G. Tokol), METU, 1987 (with M. M. Koksalan). PhD, Employment: Industry
32. Analysis of Simulation Output Using Batch-Means, (by Y. Unal), METU, 1987 (with M. M. Koksalan). Employment: Industry
33. A Simulation Application in a Flow Shop, (by C. Kaplan), METU, 1987 (with M. M. Koksalan). Employment: Industry

Master of Science - Program of Science and Technology Policy Studies:

1. Information Technology: Analysis of Its Effects in Turkish Companies, (by E. Keskin), METU, 2003. Employment: Industry
2. Analysis of the Effects of R&D Expenditures on Stock Prices - the Turkish Case, (by Yalin Gunduz), METU, 2002 (with S. Guven). Ph.D. Employment: Industry
3. A Proposal for an Electronic Commerce Model for Turkey - Organisational Approach, (by E. Deniz Oguz), METU, 2000. Employment: Industry
4. Innovation Management in Turkish Industrial Companies, (by Sirin Elci), METU, 1999 (with E. Taymaz). Employment: Industry

RECENT PROJECT/RESEARCH WORK WITH UNDERGRADUATE STUDENTS

Bilkent University - IE Department:

Design of Production Systems - senior project course, Academic Supervisor: Nesim K. Erkip

“Decision Support System for Tactical Production Planning”, Project Team: Gökse Akgül, Yaprak Aymergen, Turan Azizov, Rahime Beyza Koçak, Güliz Başak Özkan, Ceylin İzgü Sever, Sevde Sena Zeybek, July 2020, , **Ranked 2nd in the Project Fair, Bilkent University.**

“Localized Promotion Planning”, Project Team: A. Demircioglu, B. Disli, E. Duzoylum, I. Karazeybek, C. Mirzaoglu, E. Sertkaya and B. Ulutas, May 2019, **Ranked 3rd in the Project Fair, Bilkent University.**

Introduction to Research in IE and OR – senior elective course – Supervisor: Nesim K. Erkip

Tuana Terkin, “Multi-Period Joint Ordering and Inspection Policy Decisions under Stochastic Demand”, May 2019 (with E. Nadar)

Bengisu Urlu, “Safety Stock Placement under Supply Uncertainty”, January 2017

Alp Sungu, “An extension of the transportation consolidation project for e-tailing”, January 2017

Hale Erkan, “Management of airport congestion through rescheduling using fairness measures”, December 2015, May 2016, **Finalist for 2016 INFORMS Undergraduate Operations Research Prize Competition, Nashville, USA and Undergraduate Research Award from Bilkent University Department of Industrial Engineering** (with O. Safak). A version of the study is accepted for publication in *Computers and IE* (2019).

COURSES TAUGHT (* for the more recent ones)

Bilkent University - IE Department:

A Process Outlook for Industrial Engineering (freshman)
Stochastic Models (senior-elective and introductory graduate)
Design of Production Systems (Coordinator – senior project course)*
Design of Production Systems (Coordinator – senior project course) Supervised each year at least one group students working for the solution of a real problem sponsored by a firm.)*
Introduction to Research in IE and OR (Independent study for honor seniors, under the supervision of a faculty member)*
Stochastic Models of OR (junior)
Production Planning and Control (junior)*
Supply Chain Management (senior-elective)*
Quantitative Models of Supply Chain (senior-elective)
Cases in Supply Chain Management (senior-elective)
Supply Chain Management (graduate)

Cornell University:

Production Planning and Control (senior)
Cost Accounting (undergraduate)
Introduction to Operations Research (graduate)
Inventory Theory (graduate)

University of California, Berkeley:

Simulation (junior)
Facility Location and Layout (graduate)
Topics in Production and Inventory Planning and Control (graduate)

Eindhoven Technology University:

Supply Chain Management (graduate)

Middle East Technical University - IE Department:

Industrial Engineering Orientation (freshman)
Introduction to Probability and Statistics (sophomore)
Engineering Economy and Cost Analysis (sophomore)
Introduction to Statistics II (junior - old curriculum)
Introduction to Operational Research I (junior)
Simulation (senior – old curriculum), Simulation (junior)
Engineering Economy (junior)
Engineering Economy (Service to other departments)
Systems Design (Senior-Graduation Project)
Production Planning and Control I (sophomore - old curriculum), Production Planning and Control II (senior - old curriculum)

Production Planning and Control (sophomore)
Seminar on Manufacturing Systems (colloquium for seniors - old curriculum)
Inventory Planning Problems (senior-elective)
Plant Location and Layout (senior-elective)
Industrial Economics (senior-elective)
Topics in Production Planning – Anal. & Plan. Tools for Automated Manufacturing Systems (senior-elective)
Inventory Theory (graduate)
Stochastic Processes (graduate)
Models of Operations Research (graduate)
Systems Simulation (graduate)
Group Research on Queueing Networks (graduate)
Supply Chain Management (graduate)
Seminar - Flexible Manufacturing Systems (Ph.D. Seminar)
Seminar - Production (Ph.D. Seminar)
Seminar - Inventory (Ph.D. Seminar)
Seminar - Supply Chains (Ph.D. Seminar)

Middle East Technical University - Science and Technology Policy Studies:

Seminar in New Technologies (graduate)

Middle East Technical University – Engineering Management Graduate Program:

Project Management (graduate)

COURSE DEVELOPMENT and RELATED ACTIVITIES

Bilkent University, Department of IE

Course development – IE102 – A new course for IE Freshman (2009-2011)

IE102 course is videotaped for the Bilkent University WEB (2011-2014)

Course development –IE460, IE461 (with support from A. Toptal, A. Sen), 2006-2007 – IE461-course is videotaped for the Bilkent University WEB (Spring 2009)

Course development –IE571 - course is videotaped for the Bilkent University WEB (Spring 2009)

Course development –IE434/IE534 – Stochastic Models of OR 2009

Course development – IE477/478 – capstone project course - (with E. Uzun, S. Dayanık) – preparing presentations at different stages of the courses to lead student groups, preparing guidelines and assessment tools (2018-present)

Participated in ABET oriented activities, 2007-present – concentrated on developing an assessment system based on courses.

METU, Department of IE

Participated in ABET oriented activities, 1997-2001

Extensively involved in development of new courses, 1984-2000

CONTINUING EDUCATION, CERTIFICATE or DEGREE PROGRAM

- “Üretim Planlama”, prepared for VESTEL Holding, İzmir, July 2006, 2007, (In Turkish- Production Planning)
- “Üretim Planlaması ve Mühendislik Hizmetleri”, December 2, National Productivity Center, Ankara, December 1993, (In Turkish- Production Planning and Engineering Services)
- “Tam Zamanında Üretim Felsefesi ve Karar Problemleri”, METU, Continuing Education Center, prepared for Zeytinöđlu Holding, Ankara, November 1993, (In Turkish- Just-in-Time Manufacturing Philosophy and Decision Problems)
- “Tam Zamanında Üretim Felsefesi ve Tekstil Endüstrisine Uygulaması”, Textile Industry Employers' Association of Turkey, Istanbul, October 1993, (In Turkish-Just-in-Time Manufacturing Philosophy: Implications for Turkish Textile Sector)
- “SipariŖe Göre Üretim Yönetim Teknikleri”, (with S. Kayaligil), METU, Continuing Education Center, prepared for ASELSAN Inc., Ankara, September 1993, (In Turkish- Production Management Techniques for Make-to-Order Systems)
- “SipariŖe Göre Üretim Yönetim Teknikleri”, (with S. Kayaligil), METU, Continuing Education Center, Ankara, June 1993, (In Turkish- Production Management Techniques for Make-to-Order Systems)
- “Modern Stok Yönetimi”, METU, Continuing Education Center, prepared for PETKIM Inc., Ankara, April 1993 (In Turkish- Modern Inventory Management)
- “SipariŖe Göre Üretim Yönetim Teknikleri”, (with S. Kayaligil), METU, Continuing Education Center, Ankara, April 1993, (In Turkish- Production Management Techniques for Make-to-Order Systems)
- “Tam-Zamanında Üretim Sistemleri”, ARÇELİK Inc., Istanbul, December 1991, (In Turkish- Just-in-Time Manufacturing)

OTHER TEACHING ACTIVITIES

Invited to give tutorials (both short and regular) designed for executives, high-level managers, and engineers as well as short talks organized by different organizations.

Invited to panel discussions organized by student organizations, alumni, professional societies, or academic societies.

Invited to give tutorials on the “measurement of research impact” for all science and engineering PhD students.

PROFESSIONAL MEMBERSHIPS

Production and Operations Management Society

Institute of Industrial Engineers

Institute for Operations Research and Management Science (INFORMS), (Previously Operations Research Society of America (ORSA) and The Institute for Management Sciences (TIMS)),

International Society for Inventory Research

Operational Research Society of Turkey

Chamber of Mechanical Engineers, Turkey

CONFERENCE ORGANIZATION

Cluster Co-Chair, POMS International, Budapest, 2022
Program Committee Member, MSOM, Munich, 2022
Program Committee Member, ICORES, 2012-2021
Cluster Chair, EURO, Valencia, 2018
Program Committee Member, International POMS, Havana, 2016
Program Committee Member, 35th National OR/IE Conference, Ankara, 2015
Program Committee Member, IIE Conference, Istanbul, 2013
Co-Organizer of Bilkent University Workshop on Supply Chain and Logistics, 2007, 2008, 2009, 2010, 2011 and 2024, 2025
Member of the Organizing Committee, IFORS 2011 Melbourne, 2011
Cluster Chair, IFORS 2011 Melbourne, 2011
Program Co-Chair, EurOMA, Ankara 2007
Meeting Committee Member, EURO/INFORMS International, Hong Kong, 2006
Cluster Chair, EURO/INFORMS International, Hong Kong, 2006
Program Committee Member, EURO/INFORMS International, Istanbul, 2003
Chair, 19th National OR/IE Conference, Ankara, 1998

Participated in the organization of the following meetings:

4th Workshop on Inventory Modeling, Ankara, 2002
17th National OR/IE Conference, Ankara, 1995
Congress of Industry, Association of Chambers of Engineers and Architects, Ankara, 1991
13th National OR Conference, Ankara, 1990
Conference on Productivity, American Information Center, Marmaris, 1988
ODTÜ Mühendislik Fakültesi ve Prof. Mustafa Parlar Eğitim ve Araştırma Vakfı Kıbrıs Seminerleri, Magosa, Cyprus, 1985

Served as a member of Advisory Committee for the following meetings:

5th National Symposium on Production Research, Istanbul, 2005
22nd National OR/IE Conference, Istanbul 2001
20th National OR/IE Conference, Ankara 1999
Congress of Industry, Association of Chambers of Engineers and Architects, Ankara 1993
15th National OR/IE Conference, Istanbul, 1993

Served as the organizing Session Chair for many conferences

SERVICE TO UNIVERSITY

Bilkent University

Member of Ad-hoc Committee for Preparing Guidelines of BU Code of Conduct, 2020
Presentation: “How to Have Research Impact?” Module for GE500 – (Initially GE690 only for PhD students), 2014, 2015, 2016, 2018, 2019i 2020
Associate Provost (2011-2014) - *Duties include:*
Evaluation of Research Output
Planning for “General Educational Courses” for undergraduates and graduates
Various Strategic Initiatives
Planning for new neuroscience graduate programs
Improvement of undergraduate and graduate curriculums
Member of Dean Search Committee, Faculty of Management (2016)

Advisor for the operations of the Bilkent Bookstore (2009-2011)
Conducted a retreat session for the Bilkent University, EE Department (2004)

Middle East Technical University

Member, Committee on Strategic Issues, Graduate School of Natural and Applied Sciences, 2002-2003
Member, Steering Committee, Research Center for Science and Technology Policy, 2001-2002
Member, Steering Committee, Graduate School of Natural and Applied Sciences, 1998 - 2001
Participated in Preparation of Reports and Presentations for “Strategic Plan Preparatory Activities”, 1998-2001
Member, “Dean of the Faculty of Engineering - Screening Committee”, 1992
Member, Board of Directors, “Middle East Technical University- Turkish Air Force Research, Development, and Advanced Education Coordination Center”, 1990-1993

Faculty of Engineering, Bilkent University

Member, GE301 Course Faculty Recruitment 2015 – 2016
Member, GE301 Course Re-Planning, 2013 – 2014
Member, Planning for New Programs, 2007

Faculty of Engineering, Middle East Technical University

Member, Committee on Administrative Personnel, 1996-1997
Member, Committee on University Research Fund, 1992-1995
Member, Committee on Infrastructure and Coordination, 1992-1994
Member, Curriculum Committee, 1989-1990

Department of IE, Bilkent University

Coordinator, Departmental Seminars, 2015-2016
Strategic Planning - Preparation, 2014
Member, Recruitment Committee, 2014-present
Participated in ABET oriented activities, 2007-present
Coaching junior faculty, 2012-2016

Department of IE, METU

Coordinator, Departmental Seminars, 2001-2002
Participated in ABET oriented activities, 1999-2001
Extensively involved in departmental development activities since 1984, such as PhD program (including structuring of the Qualification Exam), M.Sc. program, Engineering Management M.Sc. Program, faculty development, recruiting new faculty, recruiting new graduate students, recruiting new undergraduate students, etc.
Member, Recruitment Committee, 1993-1998
Member, Graduate Committee, 1993-1995, 1996-2001
Member, Personnel Committee, 2000-2001
Member, Strategic Planning Committee, 1993
Member, Curriculum Committee, 1989-1994, 1999-2000