

CURRICULUM VITAE
MEHMET R. TANER, Ph.D.

Department of Industrial Engineering
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ACADEMIC POSITIONS

Associate Professor Department of Industrial Engineering, TED University	02/2012-present
Director Graduate School, TED University	12/2019-present
Chair Department of Industrial Engineering, TED University	07/2015-present
Director Master's Program in Engineering Management, TED University	05/2018-02/2019
Assistant Professor Department of Industrial Engineering, Bilkent University, Ankara, Turkey	09/2003-02/2012
Clinical Assistant Professor Department of Decision Sciences and Engineering Systems, Rensselaer Polytechnic Institute, Troy NY	01/2002-06/2003
Research Assistant Department of Industrial Engineering, North Carolina State University, Raleigh NC	08/1998-09/2001
Teaching Assistant Department of Industrial Engineering, North Carolina State University, Raleigh, NC	08/1996-05/1998

PROFESSIONAL AFFILIATIONS

TEDU Tech, Teknoloji Transfer, Eğitim, Danışmanlık ve Ticaret Anonim Şirketi Member of the Executive Board (with cosigner privileges)	09/2018-present
Department of Industrial Engineering, Middle East Technical University Member of the External Advisory Board	10/2019-present
Institute For Operations Research and Management Science (INFORMS) Member	2003-present
Operations Research Society of Turkey, (ORST) - Yön Eylem Araştırması Derneği, (YAD) Member	2003-present

EDUCATION

North Carolina State University, Raleigh, NC
Ph.D. in Industrial Engineering, December 2001
Minor: Operations Research
Title of Dissertation: Scheduling with Sequence Dependent Setup Times
Advisors: Professor Thom J. Hodgson and Professor Russell E. King
Research funding provided by the National Textile Center
GPA: 4.00/4.00

North Carolina State University, Raleigh, NC
M.S. in Industrial Engineering, May 1998
Title of Thesis: A Study of the Mean and Variance of Project Duration in a Probabilistic Activity Network
Advisors: Professor Yahya Fathi and Professor Salah E. Elmaghraby
GPA: 3.96/4.00

Middle East Technical University, Ankara, Turkey
B.S. in Industrial Engineering, July 1996
GPA: 3.77/4.00

OTHER ACADEMIC CERTIFICATION

Rank of Associate Professorship granted by the Inter-university Council of the Turkish Higher Education Committee (YÖK, ÜAK) on 29 June, 2011.

EDITORIAL DUTIES

Associate Editor of OR Insight, May 2009-May 2012

RESEARCH INTERESTS

- Scheduling Theory
- Logistics and Supply Chain Problems
- Heuristic and Meta-heuristic Methods for Discrete Optimization
- Reliability Engineering

PUBLICATIONS IN INTERNATIONAL REFEREED (ISI) JOURNALS

1. Taner M.R., Kara B.Y., “Endogeneous Effects of Hubbing on Flow Intensities,” Networks and Spatial Economics, vol.16, no.4, 1151-1181, 2016.
2. Sahinyazan F.G., Kara B.Y., Taner M.R., “Selective Vehicle Routing for a Mobile Blood Donation System,” European Journal of Operational Research, vol.245. no.1, 22-34, 2015.

3. Taner M.R., Karaşan O.E., and Yavuztürk E., "Scheduling of Beams with Different Priorities on a Military Surveillance Radar," *IEEE Transactions on Aerospace and Electronic Systems*, vol.48. no.2, 1725-1739, 2012.
4. Samatlı-Paç G., Taner M.R., "The role of Repair Strategy in Warranty Cost Minimization: An Investigation via Quasi-renewal Processes," *European Journal of Operational Research*, vol. 197 (2), pp. 632-641, 2009.
5. Taner M.R., Hodgson T.J., King R.E. and Schultz S.R., "Satisfying due-dates in the presence of sequence dependent family setups with a special comedown structure," *Computers and Industrial Engineering* vol.52, pp.57-70, 2007.
6. Schultz S.R., Hodgson T.J., King R.E., Taner M.R., "Minimizing Lmax for the single machine scheduling problem with family set-ups," *Int J of Production Research*, vol. 42, pp. 4315-4330, 2004.
7. Taner M.R., Hodgson T.J., King R.E. and Thoney K.A., "Satisfying Due-Dates in a Job Shop with Sequence Dependent Family Setups", *International Journal of Production Research*, 41 (17), 4153-4169, 2003.
8. Thoney K.A., Hodgson T.J., King R.E., Taner M.R. and Wilson A.D., "Satisfying Due-Dates in Large Multi-factory Supply Chains", *IIE Transactions*, 34 (9), 803-811, Sep 2002.
9. Elmaghraby S.E., Fathi Y. and Taner M.R., "On the Sensitivity of Project Variability to Activity Mean Duration", *International Journal of Production Economics* 62 (3), 219-232, 1999.

CHAPTERS IN BOOKS

1. B.Y Kara, M.R. Taner, "Hub Location Problems: The Location of Interacting Facilities," in Foundations of Location Analysis, (Edited by H.A. Eiselt and V. Marianov). pp: 273-288, Springer's International Series in Operations Research and Management Science, Springer, 2011.

PUBLICATIONS IN NATIONAL REFEREED JOURNALS

1. Sepin T.S., Yatkın M.D., Eralp M.N., Memişoğlu G., Taner M.R., Özcan M., Akdemir D., "Toz Deterjan İçin Üretim Planlama ve Çizelgeleme Sistemi Tasarımı," *Endüstri Mühendisliği*, Vol. 20(3), pp. 54-68, 2009.

REFEREED CONFERENCE PROCEEDINGS

1. M. Mısırcı, A. Toptal, M.R. Taner and İ. Sabuncuoğlu, "Coordination of Pricing and Production-Scheduling Decisions in Supply Chain Systems" in the Proceedings of the Fourth International Logistics and Supply Chain Congress, 2006.
2. Taner M. R., Schultz S. R., "Scheduling Parallel Machines with a Single Server," Proceedings of the Sixth Metaheuristics International Conference, 853-858, 2005.

3. S. R. Schultz, M. R. Taner, “Parallel dedicated machine scheduling with a single server: full precedence case,” in the Proceedings of the 13th Industrial Engineering Research Conference, Houston TX, USA, 15-19 May 2004.

SPONSORED RESEARCH

1. “Kapı Üretim Hatlarında Maliyet Tasarrufu Hedefli Üretim Planlama ve Çizelgeleme Optimizasyonu (Optimization of Production Planning and Scheduling Activities at the Door Manufacturing Lines for Cost Savings),” Bilim Teknoloji ve Sanayi Bakanlığı (Turkish Ministry of Science , Technology and Industry, SANTEZ project at OYAK-Renault), Principal Investigator, September 2011- May 2012, 72,600 TL
2. “Cycle Time Optimization in the Press Shop at Renault, Bursa,” Renault Turkey, Investigator, May – September 2008, 83,780 YTL.
3. “Coordination of pricing, and production planning and scheduling decisions in supply chain systems,” TÜBİTAK, Investigator, July 2005 – December 2007, 98,640 YTL.

INDUSTRIAL RESEARCH PROJECTS

- “Analysis of the inter-failure time data of the 30-ton excavator and cost estimation for a given warranty duration,” HİDROMEK, 02/2020-08/2020.
- “Planning and scheduling the search activities of defense radar,” with O.E. Karaşan for ASELSAN, 02/2007-05/2007.

PRESENTATIONS AT CONFERENCES

1. Taner M. R., Tuna E., Yıldırım Öcal J., “An Accountable and Participatory Approach to Strategic Planning and Management at a Young Non-Profit Foundation University in Turkey,” EAIR, The European Higher Education Society 41st Annual Forum, Leiden, The Netherlands, August 25-28, 2019.
2. “On allocation rules for global donors,” discussant for “Providing development aid for health to the moderately well-off: a bi-level program” by Alec Morton, Twelfth Annual Workshop on Supply Chain and Logistics, June 1, 2018, Bilkent University, Ankara, Turkey.
3. Taner M. R., Kara B. Y., “Dağıtım Üslerinin Akış Yoğunlukları Üzerindeki İçkaynaklı Etkileri,” Yöneylem Araştırması ve Endüstri Mühendisliği 35. Ulusal Kongresi, Ankara, Turkey, September 9-11, 2015.
4. Taner M. R., Kara B. Y., “ Endogeneous Effects of Hub Location Decisions,” CORS/INFORMS International Meeting 2015, Montreal, CA, June 14-17, 2015.
5. Şahinyazan F.G., Kara B. Y., Taner M. R., “Selective Vehicle Routing for a Mobile Blood Donation System,” CORS/INFORMS International Meeting 2015, Montreal, CA, June 14-17, 2015.

6. Şahinyazan F.G., Kara B. Y., Taner M. R., "Optimizing Mobile Blood Collection: Application in Turkey," INFORMS 2014 Annual Meeting, San Fransisco, USA, November 9-12, 2014.
7. M.R. Taner, F. Sirvan, "Common Due Date Early/Tardy Scheduling on a Single Machine with Deteriorating Jobs and Deteriorating Maintenance," 26th European Conference on Operational Research – EURO-INFORMS Joint International Meeting, Rome, Italy, 1-4 July 2013.
8. F. Şirvan, M.R. Taner, "Ortak Teslim Tarihli Pozisyona Bağlı Bozulan İşlerin, Bakım Faaliyeti ile Tek Makinede Erken/Geç Tamamlanma Maliyetlerinin En Küçüklenerek Çizelgelenmesi," Yöneylem Araştırması ve Endüstri Mühendisliği 32. Ulusal Kongresi, İstanbul, Turkey, June 20-22, 2012.
9. F.G. Şahinyazan, B.Y. Kara, M.R. Taner, "Mobil Kan Toplama Lojistiği: Türk Kızılayı Uygulaması," Yöneylem Araştırması ve Endüstri Mühendisliği 32. Ulusal Kongresi, İstanbul, Turkey, June 20-22, 2012.
10. M.R. Taner, O. Alp, N. Bozkaya, "Integrated Scheduling of Door Manufacturing Operations at Renault Turkey," 23rd Annual Production Operations Management (POMS) Conference, Chicago, IL, USA, April 20-23, 2012.
11. M.R. Taner, O.E. Kardeş, E. Yavuztürk, "Scheduling beams with different priorities on a military surveillance radar," 41st International Conference on Computers and Industrial Engineering, Los Angeles, CA, USA, October 23-26, 2011.
12. F.G.Şahinyazan, M.R. Taner, B.Y. Kara, "Logistics of Mobile Blood Donation Collection at the Turkish Red Crescent," INFORMS 2011 Annual Meeting, Charlotte, NC, USA, November 13-16, 2011.
13. F.G.Şahinyazan, B.Y. Kara, M.R. Taner, "Exact and Heuristic Approaches for the Mobile Blood Donation System of Turkish Red Crescent," Yöneylem Araştırması ve Endüstri Mühendisliği 30. Ulusal Kongresi, İstanbul, Turkey, June 30 – July 2, 2010.
14. B.Y. Kara, D. Başoğlu, M.R. Taner, G. Yurtlu, "Design of A Mobile Blood Collection System for Turkish Red Crescent (TRC)," Joint Workshop of the Turkish and Israeli Operations Research Societies, İstanbul, Turkey, September 6-8 2009.
15. D. Başoğlu, B.Y. Kara, M.R. Taner, G. Yurtlu, "Türk Kızılayı İçin Mobil Kan Taşıma Sisteminin Tasarlanması," Yöneylem Araştırması ve Endüstri Mühendisliği 29. Ulusal Kongresi, Ankara, Turkey, June 22-24, 2009.
16. B.Y. Kara, D. Başoğlu, M.R. Taner, G. Yurtlu, "Design of A Mobile Blood Collection System for Turkish Red Crescent (TRC)," ODYSSEUS Fourth International Workshop on Freight Transportation and Logistics, Çeşme, İzmir, Turkey, May 26-29, 2009.
17. G. Samatlı-Paç, M.R. Taner, "The Role of Repair Strategy in Warranty Cost Minimization," INFORMS Annual Meeting, Seattle, Washington, USA, November 4-7, 2007.
18. M. Mısırcı, A. Toptal, M.R. Taner and İ. Sabuncuoğlu, "Coordination of Pricing and Production-Scheduling Decisions in Supply Chain Systems" in the Proceedings of the Fourth International Logistics and Supply Chain Congress, İzmir, Turkey, 2006.
19. K. Sevindik, M.R. Taner, "Scheduling Parallel Machines Subject to Unavailabilities," the 35th International Conference on Computers and Industrial Engineering, İstanbul, Turkey, June 19-22, 2005.

20. Taner M.R., S.R. Schultz, "Scheduling Parallel Machines with a Single Server," the Sixth Metaheuristics International Conference, Vienna, Austria, August 22-26, 2005.
21. S. R. Schultz, M. R. Taner, "Parallel dedicated machine scheduling with a single server: full precedence case," the 13th Industrial Engineering Research Conference, Houston TX, USA, 15-19 May 2004.
22. M.R. Taner, T.J. Hodgson, R.E. King, "Scheduling with Sequence Dependent Setup Times," the International Conference on Computers and Industrial Engineering (28th ICC&IE) and The International Conference on Industry, Engineering and Management Systems (IEMS) 2001 Joint Meeting, Cocoa Beach, FL, USA, March 5-7, 2001.

WORKSHOPS ATTENDED

1. The 9th Annual National Textile Center Forum, Myrtle Beach, SC, USA, February 11-13, 2001.
2. Southeastern University and College Coalition for Engineering Education, Orientation to Teaching Workshop, Raleigh, NC, USA, April 3 1998.

GRADUATE STUDENT SUPERVISION

1. Fatma Şirvan, MS, "Minimization of early and tardy penalties on a single machine with deteriorating processing and maintenance," expected completion April 2013.
2. Feyza Güliz Şahinyazan, MS, "Mobile Blood Donation Logistics: Case for Turkish Red Crescent," July 2012. (co-advisor with Bahar Y. Kara)
3. Nurcan Bozkaya, MS, "Integrated Machine-Scheduling and Inventory Planning of Door Manufacturing Operations at Oyak Renault Factory," July 2012. (co-advisor with Osman Alp)
4. Muhammet Kolay, MS, "Minimizing the Total Completion Time in a Two Stage Flow Shop with a Single Setup Server," July 2012.
5. Merve Çelen, MS, "Scheduling logistics operations between multiple production sites and a single customer area," completed in July 2009.
6. Gülay Samatlı, M.S., "Warranty cost analysis under imperfect repair," completed in November 2006.
7. Kaya Sevindik, M.S., "Parallel machine scheduling subject to machine availability constraints," completed in January 2006.

COURSES TAUGHT

Courses Taught at TED University

- IE 537 Mathematical Programming for Engineering Management (own development), graduate level
- IE 311 Manufacturing and Service Operations Planning I (own development), junior level
- IE 316 Quality Planning and Control (own development), junior level
- IE 232 Mathematical Modeling and Optimization I (own development), sophomore level
- MATH 232 Introduction to Statistics (own development), sophomore level
- MATH 230, Introduction to Probability Theory, sophomore level
- MATH 111 Calculus of One Variable (own development), freshman level

Courses Taught at Bilkent University

- IE 463 Operations Scheduling; senior level (own development)
- IE 443 Multi-objective Decision Analysis; senior level (own development)
- IE 380 Quality Assurance and Reliability; junior level
- IE 342 Engineering Economic Analysis; junior level
- IE 271 Operations Analysis and Design; sophomore level

Courses Taught at Rensselaer Polytechnic Institute

- DSES 6960 Quality Assurance Methods and Systems (own development), graduate level
- DSES 6570 Information Technology and Systems for E-Business, graduate level
- ENGR 4750 Engineering Economy and Project Management; senior level
- DSES 4530 Information Systems; senior level
- ENGR 2600 Modeling and Analysis of Uncertainty (Introductory Probability and Statistics); sophomore level
- ENGR 2050 Introduction to Engineering Design; sophomore level

Served as a Teaching Assistant for the following courses at North Carolina State University:

- Production Planning and Control; both junior and graduate level
- Stochastic Models in Industrial Engineering; graduate level
- Quality Engineering; senior level

UNDERGRADUATE SENIOR PROJECT SUPERVISION

- Hülya Arıkan, Destina Ezgi Çavdar, Ezgi Erdiñç, Galip Oral Okan, Bersu Uysalel, IE 478 Senior Design Project, Arçelik Dishwasher Plant, “Designing a Material Distribution System,” Ankara, completed in May 2012.
- Okan Dükkancı IE490 Introduction to Research in IE and OR project, “Bicriteria Scheduling on a Single Machine with Deterministic Unavailability Periods,” completed in December 2010.
- Gözdem Çalıkođlu, Cankut Semih Diñçer, Yiđit Dizdarer, Melda Köksal, Levent Ödemiş, “Design of an effective system to increase the collected amount of recyclable domestic waste seperated at the source,” Çankaya Belediyesi, Ankara, completed in May 2011.
- Feyza Güliz Şahinyazan, “Optimization of Blood Donation via Mobile Units at Turkish Red Crescent,” IE490 and IE491 Introduction to Research in IE and OR project, completed in May 2010. (co-advisor with B.Y. Kara)

- Ceren Çakmak, Şeyma Evirgen, Özde Kamer Görçin, Serkan Kabalı, Arda Kahraman, Efe Can Örkiz, “Process Redesign and Optimization for the Manufacturing Cells of Fluence Doors,” Oyak-Renault, completed in May 2010.
- Görkem Yurtlu, “The Logistic Planning and Scheduling for Mobile Blood Donation Units of Turkish Red Crescent,” IE490-IE491 Introduction to Research in IE and OR project, completed in May 2009. (co-advisor with B.Y. Kara)
- Deniz Akdemir, Merve Nazlı Eralp, Gökhan Memişoğlu, Mehmet Özcan, Tardu Selim Sepin, Mehmet Diyar Yatkın, “Process Scheduling to Satisfy Due Dates at the Powder Detergent Manufacturing Facility,” Unilever Inc., completed in May 2009. (3rd prize at YAEM’s national competition in 2009)
- Onur Tevhik Akkız, Şehmus Aslan, Müfit Çağlayan, Levent Çoruh, Timuçin Güzel, industrial senior design project, “Batching and Scheduling to Maximize Throughput at the Liquid Detergent Manufacturing Facility,” Eczacıbaşı A.Ş., completed in May 2008.
- Oğuzhan Atasever, Selçuk Baran, Hasan Burak Gültemiz, Mehmet Akif Gürbüz, Gökhan Koyuncu, Murat Mısırcı, industrial senior design project, “Line balancing and scheduling for throughput maximization in the bus assembly shop,” MAN Türkiye A.Ş., completed in May 2007.
- Hatice Çalık, Aytül Güngör, Emine Esra Hağur, Aysun Kılıç, Elçin Kısacık, Aydanur Toker, industrial senior design project, “Job-shop scheduling for the part fabrication area at TAI-Turkish Aircraft Industries Inc.,” completed in May 2006.
- Lebriz Araci, Aybike Bavbek, Ali İhsan Özdemir, Işıl Sarı, Alize Toklu, İrem Yılmaz, Industrial Senior Project, “Application of lean manufacturing techniques in TAI-Turkish Aircraft Industries Inc.,” completed in May 2005.
- Abdullah Yürektürk, Undergraduate Senior Research Project (IE 490 – Introduction to Research in IE and OR), “Warranty policy design: cost considerations and risk aversion,” completed in December 2004.
- Emre Özgenç Ekici, Fatih Ercan, Onur Günday, Zehra Oğuz, Taylan Yalçın, Industrial Senior Project, “Designing a material handling system to serve the bus assembly shop at MAN Turkey,” completed in May 2004.

INSTITUTIONAL SERVICES

- Co-director of the Master of Science in Engineering Management Program, April 2014- May 2015, TED University.
- Member, University Senate, February 2015-present, TED University.
- Member, Faculty Board, December 2013-present, Faculty of Engineering, TED University.
- Member of the Board of the Graduate School, April 2018-February 2019 and December 2019-present, TED University.
- Member of the Executive Board of the Graduate School, December 2019-present, TED University.
- Member, Board of the Institute of Science, January 2016-January 2018, TED University.
- Member of the Strategic Planning Committee, December 2020-present, TED University.
- Served as a member of the evaluation team for the Institutional External Evaluation of Çağ University, preliminary visit made on December 3, 2018, final visit made between December 25-28, 2018. The evaluation reports was submitted in 2019, YÖKAK.
- Member, European University Association, Self-Evaluation Report preparation work group, August 2015-May 2016, TED University.
- Member, Faculty Administrative Board, March 2012- December 2013, Faculty of Engineering and Architecture, TED University.

- Member, Human Research Ethics Commission, August 2, 2012 – November 27, 2015, TED University.
- Member, Quality Committee, March 27, 2018 – December 31, 2019, TED University.
- Member, Quality Processes Workgroup, February 16, 2012 – March 27, 2018, TED University.
- Member, Graduate Rules and Regulations Committee, February 16, 2012 –April 2015, TED University.
- Substitute Member, Scientific Research Projects Committee, December 10, 2012 – March 1, 2013, TED University.
- Departmental Contact Person for the LLP/Erasmus program, September 15, 2012- July 1, 2013 (in progress), IE, TED University.
- Member, International Exchange Programs Committee, December 12, 2012 – January 11, 2017, TED University.
- Member, Curriculum Development Committee, 03/2007-02/2012, IE, Bilkent University.
- Departmental Coordinator of the International Exchange Programs, 12/2006-02/2012, IE, Bilkent University.
- Member of ABET Preparation Committee, 09/2004-02/2012, IE, Bilkent University.
- Faculty Advisor to the Student OR Club, 10/ 2004-02/2012, Bilkent University.
- Coordinator of IE 299 Summer Training Course, Summers 2005 and 2006, Fall 2005-2006, and Spring 2006-2007, IE, Bilkent University.
- Coordinator of IE 299 & IE 399 Summer Training Courses, Summer 2004-2005, IE, Bilkent University.
- Departmental Faculty Representative at Türkiye Makina Mühendisleri Odası Birliği, 10/2004-10/2005, IE, Bilkent University.
- Member, Undergraduate Committee, 08/2002-06/2003, DSES, Rensselaer Polytechnic Institute

OTHER PROFESSIONAL SERVICES

- Reviewed manuscripts for IIE Transactions, Journal of the Operational Research Society, European Journal of Operational Research, International Journal of Production Research, IEEE Transactions on Systems, Man and Cybernetics, Discrete Applied Mathematics, Computers and Industrial Engineering, Mathematical and Computer Modeling, IEEE Transactions of Aerospace and Electronic Systems, Applied Mathematical Modeling, Journal of Robotics and Computer Integrated Manufacturing, International Journal of Computer Integrated Manufacturing, Journal of Industrial and Management Optimization, Applied Mathematics and Computation, Asia-Pacific Journal of Operations Research, European Journal of Industrial Engineering, Information Sciences, IET Radar, Sonar and Navigation Journal, and Endüstri Mühendisliği Dergisi.
- Served as a member of the Doctoral Qualifying Exam Jury at the Department of Industrial Engineering at METU, 2019, 2020, 2021.
- Served as a member of the Doctoral Qualifying Exam Jury at the Department of Industrial Engineering at Bilkent, 2018, 2019.
- Reviewed a textbook for CRC Press, Taylor and Francis Company.
- Reviewed the first four chapters of the book entitled “Proje Yönetimi: Analitik Yaklaşımları,” by Ö. Hazır, U. Eryılmaz, M. Hafizoğlu, Ankara, 2014.
- Served as a referee for scientific projects funded by TÜBİTAK and scientific project proposals submitted to TÜBİTAK.
- Served as a referee for TEYDEB project applications within TÜBİTAK’s support initiative of eligible industrial research and development activities.
- Served as a referee for a TTGV project application within the support initiative of eligible industrial research and development activities.

HONORS

Biographical profile included in Marquis Who's Who in the World (28th edition and on), 2011-present.

James T. Ryan Fellowship, 2000

Phi Kappa Phi, The Honor Society, elected in 1999

NATO Ph.D. Scholarship, 1996-2001

Placed in Dean's List, North Carolina State University, 1996-2001

Placed in President's High Honor List, Middle East Technical University, 1992-1996