MELTEM DENIZEL

Iowa State University

Ivy College of Business/Supply Chain and Information Systems

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Education

1993	Ph.D.	Decision and Information Sciences, University of Florida, USA
1986	M.S.	Industrial Engineering, Middle East Technical University, METU, Turkey
1983	B.S.	Industrial Engineering, Middle East Technical University, METU, Turkey

1. Academic Work Experience

University of Florida

2016 – Preser	nt Associate Professor, College of Business, Supply Chain and Information Systems
2009 - 2016	Professor, Ozyegin University, Faculty of Business
2007 - 2009	Professor, Faculty of Management, Sabanci University
2007 – 2008	Visiting Fulbright Scholar, College of Management, Georgia Institute of Technology
1999 - 2007	Associate Professor, Faculty of Management, Sabanci University
1996 - 1999	Visiting Assistant Professor, Department of Decision and Information Sciences, University of Florida
1995 - 1996	Assistant Professor, Department of Industrial Engineering, Middle East Technical University METU
1994 - 1995	Visiting Assistant Professor, NEOS MBA, International Program for Business Studies, Pordenone, Italy

1993 - 1994 Visiting Assistant Professor, Department of Decision and Information Sciences,

2. Research

Publications:

Soytas, M.A., Usar, D.D., Denizel M., (2020) "Estimation of the Static Corporate Sustainability Interactions Model," To appear in International Journal of Production Research https://doi.org/10.1080/00207543.2020.1856435

- Sternberg, H., S., Denizel M., (2020) "Towards the Physical Internet Logistics service modularity and design implications" To appear in Journal of Business Logistics, DOI: 10.1111/JBL.12261
- Yanikoglu, I., Denizel M., (2019) "A Robust Optimization Approach to Multi-period Remanufacturing Planning with Uncertain Quality of Inputs" To appear in *International Journal of Production Research* https://doi.org/10.1080/00207543.2020.1711983
- Denizel, M., Yoshi, S., Anderson, C.J., (2020) "Increasing Biofuel Proliferation via the Optimal Use of Government Incentives," *Transportation Journal* Vol. 59, No. 4, Pages 399-419
- Usar, D.D., Denizel, M., Soytas, M.A., (2019) "Corporate sustainability interactions: A game theoretical approach to sustainability actions." *International Journal of Production Economics*, Vol. 218, Pages 196-211
- Soytas, M.A, M. Denizel, D. D. Usar, (2019) "Addressing endogeneity in the causal relationship between sustainability and financial performance." *International Journal of Production Economics*, Vol. 210, Pages 56-71
- Solyali O., M. Denizel, and H. Sural, (2015) "Effective Network Formulations for Lot Sizing with Backlogging in Two-Level Serial Supply Chains," *IIE Transactions* 47, 1-13; DOI: 10.1080/0740817X.2015.1027457
- Ozdemir, O., M. Denizel, and M. Ferguson, (2014) "Allocation of Returned Products among Different Recovery Options through an Opportunity Cost based Dynamic Approach," *Decision Sciences*, Vol 45, No 6, pp 1083-1116
- Denizel, M., M. Ferguson, and B. Toktay (2013) "Incorporating Sustainability into Humanitarian Aid Operations: Recipient Selection in Donations of Medical Supplies," *Operations Management Education Review*, No. 7, pp. 49-78
- Ozdemir O., M. Denizel, D. Guide, (2012) "Recovery Decisions of a Producer in a Legislative Disposal Fee Environment," *European Journal of Operational Research*, Vol 216, No. 2 pp. 293–300
- Kosedag, A., M. Denizel, and O. Ozdemir (2011) "Testing for convergence in bank efficiency: a cross-country analysis," *The Service Industries Journal*, Vol 31, No. 9, pp. 1533–1547
- Sural H., O. Solyali, M. Denizel (2010) "The one-warehouse multi-retailer problem with an order-up-to level inventory policy," *Naval Research Logistics*, Vol 5, No. 7, pp. 653-666
- Denizel, M., M. Ferguson, and G. Souza (2010) "Multi-Period Remanufacturing Planning with Uncertain Quality of Inputs," (2008 Wickham Skinner Best Unpublished Paper Award, First Prize), *IEEE Transactions on Engineering Management*, Vol. 57, No. 3, pp. 394 404
- Sural H., M. Denizel, and L.V. Wassenhove, 2009, "Lagrangean Relaxation Based Heuristics for Lot-sizing with Setup Times," *European Journal of Operational Research* Vol. 194, No. 1, pp. 51–63
- Denizel, M., F. T. Altekin, H. Sural, and H. Stadtler, 2008, "Equivalence of the LP Relaxations of Two Strong Formulations for the Capacitated Lot-Sizing Problem with Setup Times," *OR Spectrum*, Vol. 30, No.4, pp. 773-785

Batislam, E., M. Denizel, and A, Filiztekin, 2007, "Empirical Validation and Comparison of Models for Customer Base Analysis," *International Journal of Research in Marketing*, Vol. 24, No.3, pp. 201–209

Denizel, M., U. Ekinci, G. Ozyurt, D. Turhan, "Ford-Otosan Optimizes Its Stocks Using a Six-Sigma Framework," 2007, *Interfaces*, Vol. 37, No.2, pp. 97-107

Denizel, M., H. Sural, "On Alternative Mixed Integer Formulations and LP-based Heuristics for Lot-sizing with Setup Times," 2006, *Journal of Operational Research Society* Vol. 57, pp. 389-399

Denizel, M., B. Usdiken, and D. Tuncalp, "Drift or Shift? Continuity, Change and International Variation in Knowledge Production in OR/MS," 2003, *Operations Research* Vol. 51, No. 5, pp. 711-720

Denizel, M., "Minimization of Number of Tool Magazine Setups on Automated Machines: A Lagrangean Decomposition Approach," 2003, *Operations Research*. Vol. 51, No. 2, pp. 309-320

Denizel, M. and S. Sayin, "Part-type Selection in Flexible Manufacturing Systems: A Bicriteria Approach with Due Dates," 1998, *Journal of Operational Research Society*, Vol. 49, pp. 659-669

Denizel, M. and S. S. Erenguc, "Exact Solution Procedures for a Class of Production Planning Problems in Flexible Manufacturing Systems," 1997, *Computers and Operations Research*, Vol. 24, No.11, pp. 1043-1055

Denizel, M., S. S. Erenguc, and H. Benson, "Dynamic Lot-Sizing with Setup Cost Reduction," 1997, *European Journal of Operational Research*, Vol.100 pp. 537-549

Denizel, M., S. S. Erenguc, and H. D. Sherali, "Convex Envelope Results and Strong Formulations for a Class of Mixed Integer Programs," 1996, *Naval Research Logistics*, Vol. 43, No. 4, pp. 503-518

Denizel, M., and S. S. Erenguc, "A Branch and Bound Procedure for Setup Problems in Flexible Manufacturing Systems," 1993, *Production and Operations Management* Vol. 2, No. 4, pp. 289-305

Denizel, M., and S. S. Erenguc, "A Polynomial Algorithm for a Multi-item Capacitated Production Planning Problem," 1993, *Operations Research Letters*, Vol. 13, No. 5, pp. 287-293

Saatcioglu, O., M. Denizel, N. Karabakal and L. Tuncel, "Industrial Engineering Applications in Middle East Technical University Management," 1989, *Endustri Muhendisligi Dergisi* (Turkish Journal of Industrial Engineering), Vol. 1, No. 2, pp. 3-7, (in Turkish)

Conference Proceedings:

Denizel, M., "The Zero Inventory Rule in Lot Sizing for Spare Parts and Refurbished Cores in a Remanufacturing Environment," in *International Workshop on Lot-Sizing*, *IWLS2018*, 2018

Nurlu-Deniz N., Denizel, M., "Lot-sizing in a remanufacturing environment" *International Workshop on Lot Sizing August 23rd - 25th, 2016, Hannover, Germany.* http://iwls2016.emse.fr/program.html

Nurlu-Deniz N., Denizel, M., "Lot Sizing for Spare Parts and Refurbished Cores in a Remanufacturing Environment," in *International Workshop on Lot-Sizing, August 26th - 28th, 2013 Brussels, Belgium. http://iwls2013.emse.fr/*

Solyali O., M. Denizel, and H. Sural, "Effective Network Models for the Two-Level Serial Lot Sizing Problems," in *International Workshop on Lot-Sizing*, *IWLS2012*, 2012.

Denizel, M., O. Solyali, and H. Sural, "Tight formulations for the two and three level serial lot-sizing problems," in *International Workshop on Lot-Sizing, IWLS2010*, 2010.

Ozdemir, O. and M. Denizel, "A resource based and context dependent model of firm competitiveness," *POMS 2006 17th Annual Conference Proceedings*, 004-0557, April 28-May 1 2006

Tuncalp D, A. Oncu, and M. Denizel, "Enterprise resource planning technology as a source of change and stability in organizations" *Proceeding of the EuroMA Conference - Operations as a Change Agent* INSEAD and EuroMA 2004,1167 – 1177 (on CD ROM)

Denizel, M., Y. Arikan, G. Ulusoy, and B. Catay "Conceptual Design of an E-Marketplace for Small and Medium Size Enterprises in the Turkish Machine Industry," 2002, *Proceedings of the Fifth International Conference on Electronic Commerce Research ICECR-5, Montreal, Canada* (on CD Rom)

Denizel, M., and S. S. Erenguc, "Production Planning in a Flexible Manufacturing Environment", 1991, *Proceedings of the 1991 Annual Meeting of the Decision Sciences Institute*, Vol. 3, 1206-1208

Dogrusoz H., M. Denizel, and N. Karabakal, "Replacement of Garbage Collection Trucks Under Deterioration in Cost and Availability," 1987, *Proceedings of the 11th National Meeting of the Operations Research Society of Turkey* (in Turkish)

Denizel, M., N. Karabakal, O. Saatcioglu, and A. Toker, "An Information System and Organizational Design for Solid Waste Management," 1987, *Proceedings of the 11th National Meeting of the Operations Research Society of Turkey* (in Turkish)

Papers under Review or Revision:

Zhuang, Y., Denizel, M., Montabon, F., "Examining Firms' Sustainability Frontier: Are Firms with High Sustainability Performance Also Efficient?" First Revision for *Journal of Production Economics*

Working Papers

Suzuki, Y., Denizel, M., "Driver Assignment Problem" (tentative title). Developing and testing a mathematical model.

Denizel, M., "The Zero Inventory Rule in Lot Sizing for Spare Parts and Refurbished Cores in a Remanufacturing Environment," (In Preparation)

Dissertation/ Thesis Supervision:

Thesis Title: Corporate Sustainability Interactions and Corporate Financial Performance Ph.D. Student: Damla Durak-Usar, Co-advisor with Mehmet A. Soytas, Completed November 2017, Ozyegin University

Thesis Title: Product Recovery Systems: Policy Issues and Disposition Decisions Ph.D. Student: Oznur Ozdemir, Supervisor, Completed July 2009, Sabanci University

Thesis Title: Recursive Dualism of Technology: Restructuring Technology Adaptation in Organizations

Ph.D. Student: Deniz Tuncalp, Co-advisor with Ahmet Oncu, Completed February 2006, Sabanci University

Current Research Interests:

Sustainable Operations, Product Recovery Systems Supply Chain Management/ Multi Level Lot Sizing

3. Teaching Experience

2016-2020 SCM 424 Process Management Analysis and Improvement, SCM 524 Strategic Process Analysis and Improvement SCM 605 Seminar in Operations Management

Courses Taught at Ozyegin University:

2009-2012	Data, Models, and Decisions, Graduate MBA
2009-2014	Operations Management, Graduate MBA/EMBA
2011-2013	Operations Research
2012-2016	Linear Programming and Extensions Graduate, PhD.

Developer and Organizer, Certificate Program in Sustainability in Business, Ozyegin University

Courses Taught at Other Universities:

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2000	Methods of Inquiry, MBA
2000, 2002	Value Creation Management, MBA
2000	Functional E-Business, MBA
2001, 2007	Business Process Analysis & Design, MBA
2001	Customer Relationships Management, MBA
2002-2007	Operations Management, MBA
2002-2007	Supply Chain Management, MBA
2003, 2005	Operations and Decision Systems, Ph.D. Level
2003	Operations Modeling, Ph.D. Level
2001, 2006	Special Topics in OM, Ph.D. Level
2002, 04-05	Professional Development Seminar I – II, Ph.D. Level

University of Florida:

1997-1999	Management Science with Excel, Graduate
1996	Production and Operations Management, Undergraduate
1996-1997	Knowledge Based Systems, Undergraduate
1996-1999	Discrete Event System Simulation, Graduate
1993, 1997	Manufacturing Planning and Control, Graduate
1993	Statistics for Business, Undergraduate

Middle East Technical University

1995-1996	Discrete Event System Simulation, Undergraduate
1996	Seminar in Flexible Manufacturing Systems, Graduate

1988 Quantitative Methods, Undergraduate

NEOS MBA 1994 Statistic for Business, Graduate

Teaching Case:

Denizel, M., E. Batislam, C. Akkan (2006) "TEMSA: A time of Crisis", ECCH The case for learning, No 606-029-1, UK

4. Awards/ Honors/ Research Grants/ Fellowships

TUBITAK 1001 Grant (Turkish Science and Technology Foundation) – March 2014 – August 2016 (with Mehmet Ali Ozsoy) "Sustainability in Business: Database construction and economics based modelling"

TUBITAK 1001 Grant (Turkish Science and Technology Foundation) – September 2013–August 2015, (with Erim Kardes) "Robust Optimization for Remanufacturing Planning with Uncertain Quality of Inputs"

February 2008 – August 2008 **TUBITAK** *Post Doctoral Research Scholarship*, Hosting University: Georgia Institute of Technology, Atlanta, Georgia; Project Title: Product Recovery Systems for Sustainable Development

2008 Wickham Skinner Best Unpublished Paper Award First Prize, "Multi-Period Remanufacturing Planning with Uncertain Quality of Inputs" (with M. Ferguson and G. Souza), Presented at the 19th Annual Conference of POMS (production and Operations Management Society), May 2008, La Jolla, CA, USA

August 2007– January 2008 *Fulbright Senior Research Scholarship* Fulbright Turkey-USA Cultural Exchange Commission, Hosting University: Georgia Institute of Technology, Atlanta, Georgia; Project Title: Product Recovery Systems for Sustainable Development

Industry Grants/Consulting Projects:

Project Title: Supply Chain Network Optimization for the Renewable Energy Group (REG),

Ames Iowa – 2017-2018

Project Team: Meltem Denizel, Yoshinori Suzuki

Project Title: Inventory Optimization for TEMSA Spare Parts Management, Industry funded project, 2006.

Project Title: Business Excellence and E-Business Strategies in The Turkish Machine Industry, TUSIAD Projesi, 2001-2002.

Project Team: G. Ulusoy, B. Catay, M. Denizel, and Y. Arikan

Project Title: Customer Base Analysis and Customer Loyalty Measurement in a Grocery

Retailer, Industry funded project, 2003-2004

Project Team: E. Batislam, M. Denizel, A. Filiztekin, and Y. Saygin

Project Title: Solid Waste Collection, Transportation and Disposal System for the Metropolitan Area of Istanbul, 1985-1986

Project Team: H. Dogrusoz, N. Erkip, O. Kirca, C. Beseli, M. Denizel, H. Sural, A. Toker.

5. Administrative Work Experience:

2019-2020	PhD Committee Faculty Senate Appeals Committee Academic Standards Committee P&T Committee
2018-2019	PhD Committee Ivy Speaker Series Committee Faculty Senate Appeals Committee P&T Committee
2017-2018	Recruiting Committee Diversity Committee PhD Committee Faculty Senate Appeals Committee P&T Committee
2016-2017	Diversity Committee PhD Committee Voorhees Supply Chain Conference Organization Committee Faculty Senate Appeals Committee
2013-2016	Dean, Faculty of Business Ozyegin University
2009-2016	Member, University Senate, Ozyegin University Member, University Administrative Board, Ozyegin University Member, Graduate School Administrative Board, Ozyegin University Member, Business Faculty Administrative Board, Ozyegin University
2009-2013	Director, Business PhD Program, Ozyegin University
2000-2006 2005-2009 2003-2007 2003-2007 2002-2007	Chair, Faculty of Management PhD Committee, Sabanci University Member, Graduate School Administrative Board, Sabanci University Member, University Administrative Board, Sabanci University Member, University Senate, Sabanci University Member, University Research Council, Sabanci University

6. Professional and Public Services:

Editor/Editorial board memberships in scientific journals:

Editorial Review Board member for Decision Sciences Journal (2020-)

Editorial Board Member for Flexible Services and Manufacturing Systems (2011-)

Advisory Board Member for OR Spectrum (SCI)

Associate Editor for POMS Chronicle 2009-2013

Referee: Operation Research, Transportation Research Part E: Logistics and Transportation Review, IIE Transactions, Decision Sciences, 4OR A Quarterly Journal of Operations Research, Computers and Operations Research, OR Spectrum, IEEE Transactions on Engineering Management, Transactions on Operational Research, Flexible Services and Manufacturing

Organizer/Coordinator of Academic Conferences:

Voorhees Supply Chain Conference – April 28, 2007, Organizing Committee member

Track Chair: POM 2013 - Twenty Fourth Annual Conference, Denver, Colorado, U.S.A. May 3 - May 6, 2013

Organizer, IWLS (International Workshop on Lot-Sizing), August 24 – 26, 2011, Istanbul, Turkey (Hosted by Ozyegin University)

Co-organizer: Twelfth Annual Decision and Information Sciences (DIS) Workshop on the "Globalization of Business Processes". June 2000 Istanbul. Jointly hosted by Graduate School of Management (GSM), Sabanci University and Department of Decision and Information Sciences Warrington College of Business Administration, University of Florida

Co-organizer: Organized a session on "Sustainability and Competitiveness" in the 2nd Workshop on Competitiveness; Organized by Competitiveness Forum of Sabanci University and TUSIAD (Turkish Industrialists and Businessmen Association), Hosted by Sabanci University on October 6-7, 2006

Professional Affiliations:

Institute for Operations Research and Management Sciences (INFORMS, USA)

Production and Operations Management Society (POMS, USA)