

EDA KEMAHLIOĞLU-ZIYA

Poole College of Management
NC State University
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EDUCATION

Georgia Institute of Technology, Atlanta, GA

H. Milton Stewart School of Industrial and Systems Engineering

Ph.D. in Industrial and Systems Engineering, 2004.
Dissertation Title: Formal Methods of Value Sharing in Supply Chains
Advisor: Dr. John J. Bartholdi, III
Minor: Quantitative finance

Georgia Institute of Technology, Atlanta, GA

H. Milton Stewart School of Industrial and Systems Engineering

M.S. in Industrial Engineering, 1999.

Boğaziçi University, Istanbul, TURKEY

Department of Industrial Engineering

B.S. in Industrial Engineering, 1997.

ACADEMIC POSITIONS

Poole College of Management, NC State University, Raleigh, NC

Assistant Professor (August 2013 – present)

Kenan-Flagler Business School, University of North Carolina, Chapel Hill, NC

Operations Management

Assistant Professor (January 2006 – June 2013)

Adjunct Assistant Professor (July 2004 – December 2005)

RESEARCH INTERESTS

- Supply chain management, supply chain cooperation and coordination, inventory planning
- Environmentally sustainable supply chain management, impact of environmental legislation on supply chains

HONORS AND AWARDS

- 2015 Research Leadership Award, Department of Business Management, Poole College of Management
- 2014-2015 Gill Grant recipient
- Recipient, Sustainability Initiative Research Grant (with Robert Handfield) for the project titled “Measuring the True Impact of Take-back Legislation in the Electronics Industry,” March 2014
- Management Science Journal Meritorious Service Award, 2013
- MSOM Journal Meritorious Service Award, 2008, 2012
- Co-advisor (with Jay Swaminathan) of Gokce Esenduran, who is the co-winner of the 2011 Elwood S. Buffa dissertation award presented by the Decision Sciences Institute
- UNC-Tsinghua Center for Logistics and Enterprise Development Grant Recipient, 2008
- Richard E. Rosenthal Young Researcher Connection Appointee, INFORMS, 2007

- Finalist, Doctoral Dissertation Proposal Award in Supply Chain Optimization, sponsored by the Supply Chain and Logistics Engineering Center (SCALE) at the Department of Industrial and Systems Engineering, University of Florida, October 2003

JOURNAL PUBLICATIONS

- G. Esenduran, E. Kemahlioglu Ziya and J. Swaminathan. "The Impact of Take-back Legislation on Remanufacturing," forthcoming at *Decision Sciences Journal*. Decision date: May 2014
- E. Kemahlioglu-Ziya. 2015. "Contracting for Capacity under Renegotiation: Partner Preferences and the Value of Anticipating Renegotiation," *Production and Operations Management Journal*, 24(2), 237-252.
- G. Esenduran and E. Kemahlioglu Ziya. 2015. "A Comparison of Product Take-back Compliance Schemes," *Production and Operations Management Journal*, 24(1), 71-88.
- H. S. Heese and E. Kemahlioglu Ziya. 2014. "Enabling Opportunism: Revenue Sharing when Sales Revenues are Unobservable," *Production and Operations Management Journal*, 23 (9), 1634-1645.
- A. Orsdemir, E. Kemahlioglu-Ziya and A. Parlakturk. 2014. "Competitive Quality Choice and Remanufacturing," *Production and Operations Management Journal*, 23(1), 48-64
- E. Kemahlioglu Ziya and J. J. Bartholdi, III. 2011. "Centralizing Inventory in Supply Chains by Using Shapley Value to Allocate the Profits," *Manufacturing and Service Operations Management*, 13(2), 146-162

PAPERS UNDER REVIEW

- H. S. Heese and E. Kemahlioglu Ziya." Don't Ask, Don't Tell: Sharing Revenues with a Dishonest Retailer," submitted for third round of review at *European Journal of Operational Research*. Resubmission date: June 2015
- G. Esenduran, E. Kemahlioglu Ziya and J. Swaminathan. 2014. "Impact of Take-Back Regulation on Remanufacturing Industry," invited for second round of review at *Production and Operations Management Journal*. Decision date: July 2014

BOOK CHAPTERS

- G. Esenduran, E. Kemahlioglu Ziya and J. Swaminathan. 2012. "Product Take-back Legislation and Its Impact on Recycling Remanufacturing Industries," In "Sustainable Supply Chains: Models, Methods, and Public Policy Implications," T. Boone, R. Ganeshan and V. Jayaraman, eds. Fred Hillier Book Series (invited book chapter).
- J. J. Bartholdi, III and E. Kemahlioglu Ziya. 2005. "Using Shapley Value to Allocate Savings in a Supply Chain," In P. M. Pardalos and J. Geunes, eds. Supply Chain Optimization (Applied Optimization), Springer Science + Business Media (refereed book chapter.)

WORKING PAPERS/ WORK-IN-PROGRESS

- A. Camdereli, E. Kemahlioglu Ziya and J. Swaminathan. 2015. "Inventory Management under Imperfect Inventory Availability and Customer-Driven Search"
- E. Kemahlioglu Ziya and O. Perdikaki. 2015. "Outsourcing under competition: When to Choose a Competitor as a Supplier?"
 - Accepted for presentation at the 2015 Manufacturing and Service Operations Conference in Toronto, CA
- M. Jaunich, H. Moheb-Alizadeh, J. DeCarolis, R. Handfield, E. Kemahlioglu-Ziya and R. Ranjithan. 2015. "Measuring the True Impact of Take-back Legislation in the Electronics Industry"

REFEREED CONFERENCE PROCEEDINGS

- H. S. Heese and E. Kemahlioglu Ziya. 2009. "Don't Ask Don't Tell: An Analysis of Revenue Sharing Contracts When Retailers Cheat," Proceedings of the 2009 M&SOM Conference, Boston, MA, USA (extended abstract).
- G. Esenduran and E. Kemahlioglu Ziya. 2009. "Complying with Take-Back Legislation: A Cost Comparison and Benefit Analysis of Three Compliance Schemes," Proceedings of the 2009 M&SOM Conference, Boston, MA, USA (extended abstract).
- G. Esenduran, E. Kemahlioglu Ziya and J. Swaminathan. 2008. "Remanufacturing Under Take-Back Legislation: Cost Benefits or Potential Competition?" Proceedings of the 2008 SIG Conference on Supply Chain Management, Adelphi, MD, USA.
- A. Camdereli, E. Kemahlioglu Ziya and J. Swaminathan. 2006. "Inventory Management under Shrinkage and Customer-Driven Search," Proceedings of the 2006 M&SOM Conference, Atlanta, GA, USA (extended abstract).
- D. Bodner, T. Govindaraj, E. Kemahlioglu, E. Blanco, M. Goetschalckx, L. McGinnis, and G. Sharp. 2000. "Using Internet Technology for Design of Facilities and Material Handling Systems," Proceedings of the 2000 International Material Handling Research Colloquium, York, PA, USA.

NON-REFEREED CONFERENCE PROCEEDINGS

- A. R. Kaylan, S. Ziya, and E. Kemahlioglu. 1998. "Web Based Process Management and Simulation Tool," Proceedings of the 10th European Simulation Symposium, Simulation Technology: Science and Art, eds. A. Bargiela and E. Kerckhoffs, 433-438.

PRESENTATIONS

Invited/refereed Conference Presentations (presentations by co-authors not listed but are available on request):

- E. Kemahlioglu Ziya (presenter), O. Perdikaki, "Outsourcing under competition: When to Choose a Competitor as a Supplier?" MSOM Annual Meeting, Toronto, Canada, June 2015. (refereed)
- E. Kemahlioglu Ziya (presenter), O. Perdikaki, "Outsourcing under competition: When to Choose a Competitor as a Supplier?" 26th Annual POMS Conference, Washington, DC, May 2015.
- E. Kemahlioglu-Ziya (presenter), M. Jaunich, H. Moheb-Alizadeh, J. DeCarolus, R. Handfield, and R. Ranjithan, "Measuring the True Impact of Take-back Legislation in the Electronics Industry," 26th Annual POMS Conference, Washington, DC, May 2015.
- E. Kemahlioglu Ziya (presenter), H. S. Heese, "Revenue Sharing Contracts When Retailers Can Be Dishonest," INFORMS Annual Meeting, San Francisco, CA, November 2014
- E. Kemahlioglu-Ziya (presenter), "Contracting for Capacity under Renegotiation," INFORMS Annual Meeting, San Francisco, CA, November 2014
- E. Kemahlioglu-Ziya (presenter), "Contracting for Capacity under Renegotiation," 20th Conference of IFORS, Barcelona, Spain, July 2014
- E. Kemahlioglu Ziya (presenter), G. Esenduran, "Comparison of Product Take-back Compliance Schemes," INFORMS Annual Meeting, Minneapolis, MN, October 2013
- E. Kemahlioglu Ziya (presenter) G. Esenduran and J. Swaminathan, "The Impact of Take-back Legislation on Remanufacturing," MSOM Conference, Fontainebleau, France, July 2013. (refereed)
- E. Kemahlioglu-Ziya (presenter), A. Orsdemir and A. Parlakturk, "Competitive Quality Choice and Remanufacturing," MSOM SIG Conference on Sustainable Operations, New York, NY, June 2012. (full paper refereed)
- E. Kemahlioglu Ziya (presenter), G. Esenduran, "Complying with Take-Back Legislation: A Comparison of Compliance Schemes," 23rd Annual POMS Conference, Chicago, IL, April 2012.

- E. Kemahlioglu-Ziya (presenter), A. Orsdemir and A. Parlakturk, “Competitive Quality Choice and Remanufacturing,” INFORMS Annual Meeting, Charlotte, NC, November 2011.
- E. Kemahlioglu Ziya (presenter), “Contracting for Capacity under Renegotiation: Partner Preferences and the Value of Anticipating Renegotiation,” INFORMS Annual Meeting, Austin, TX, November 2010.
- E. Kemahlioglu Ziya (presenter), G. Esenduran, “Complying with Take-Back Legislation: A Cost Comparison and Benefit Analysis of Three Compliance Schemes,” INFORMS Annual Meeting, San Diego, CA, October 2009.
- E. Kemahlioglu Ziya (presenter), H. S. Heese, “Don’t Ask Don’t Tell: An Analysis of Revenue Sharing Contracts When Retailers Cheat,” MSOM Annual Meeting, Boston, MA, June 2009. (refereed)
- Eda Kemahlioglu-Ziya (presenter), “Partner Selection in Contracting for Capacity under Renegotiation,” INFORMS Annual Meeting, Washington, DC, October 2008.
- E. Kemahlioglu Ziya (presenter), J. Swaminathan and G. Esenduran, “The Impact of Take-back Legislation on Remanufacturing,” the Supply Chain Management Special Interest Group Conference, Adelphi, MD, June 2008. (full paper refereed)
- E. Kemahlioglu Ziya (presenter), “Partner Selection in Risk Pooling,” INFORMS Annual Meeting, Seattle, WA, USA, November 2007.
- E. Kemahlioglu Ziya (presenter), J. Swaminathan and G. Esenduran, “Outsourcing Remanufacturing Operations: Cost Benefits or Potential Competition,” MSOM Annual Meeting, Beijing, China, June 2007. (refereed)
- E. Kemahlioglu Ziya (presenter), “Analyzing Capacity and Inventory Pooling Using Cooperative Game Theory,” INFORMS Annual Meeting, Pittsburgh, PA, November 2006.
- E. Kemahlioglu Ziya (presenter), J. Swaminathan and G. Esenduran, “Outsourcing Remanufacturing Operations: Cost Benefits or Potential Competition,” INFORMS Annual Meeting, Pittsburgh, PA, November 2006.
- E. Kemahlioglu Ziya (presenter), J. Swaminathan, and A. Camdereli, “Inventory Management under Shrinkage and Demand Spillover: Who Benefits from Reducing Shrinkage?” 17th Annual Conference of POMS, Boston, MA, April 2006.
- E. Kemahlioglu Ziya (presenter), J. Swaminathan, and A. Camdereli, “Collaboration to Improve Inventory Availability under Demand Spillover,” INFORMS Annual Meeting, San Francisco, CA, November 2005.
- E. Kemahlioglu Ziya (presenter) and J. J. Bartholdi, III, “Using Shapley Value to Allocate Profits from Inventory Pooling,” INFORMS Annual Meeting, Denver, CO, October 2004.
- E. Kemahlioglu Ziya, “Formal Methods of Value Sharing in Supply Chains,” NSF Workshop on Supply Chain Management, Gainesville, Florida, February 2004.
- E. Kemahlioglu Ziya (presenter) and J. J. Bartholdi, III, “Inventory Management for a Supply Chain with Coalition-Forming Players,” INFORMS Annual Meeting, Atlanta, GA, October 2003.

Invited Presentations at:

- Department of Management, Bogazici University (June 2014)
- SAS Institute (January 2013)
- Poole College of Management, NC State University (January 2013)
- Quinlan School of Business, Loyola University Chicago (December 2012)
- Koc University, ORCIBS Seminar Series (July 2012)
- UNC Junior Faculty Workshop (March 2012)
- Fayetteville State University (January 2012)
- Carolina-Duke Operations Management Workshop (April 2010)
- Management School, Lancaster University (May 2009)
- Graduate School of Business, University of Chicago (January 2008)
- Fuqua School of Business, Duke University (November 2007)

- Desautels Faculty of Management, McGill University (September 2007)
- Kelley School of Business, Indiana University (April 2007)
- Carolina-Duke Operations Management Workshop (October 2005)
- North Carolina State University (March 2004)

- University of Virginia (February 2004)
- University of North Carolina at Chapel Hill (February 2004)
- Purdue University (February 2004)
- University of Chicago (January 2004)
- Texas A&M University (January 2004)

PROFESSIONAL SERVICE

- Invited session chair, INFORMS Annual Meeting, Philadelphia, PA, November 2015
- Invited session chair, POMS Annual Meeting, Washington, DC, May 2015
- Invited session chair, 20th Conference of IFORS, Barcelona, Spain, July 2014
- Invited session chair, POMS Annual Meeting, Atlanta, GA, May 2014
- Invited session chair, INFORMS Annual Meeting, Minneapolis, MN, October 2013
- Chair, Sustainable Operations Track, POMS Annual Meeting, Denver, CO, May 2013
- Combined Colloquia Chair, INFORMS Annual Meeting, Charlotte, NC, November 2011
- Invited session chair, INFORMS Annual Meeting, Charlotte, NC, November 2011
- Combined Colloquia Chair, INFORMS Annual Meeting, Austin, TX, November 2010
- Invited session chair, INFORMS Annual Meeting, San Diego, CA, October, 2009
- Invited session chair, INFORMS Annual Meeting, Washington DC, October, 2008
- Invited session chair, INFORMS Annual Meeting, Seattle, WA, November, 2007
- Ad hoc referee for Management Science, Manufacturing and Service Operations Management, Operations Research, Production and Operations Management, IIE Transactions, IEEE Transactions on Engineering Management, Naval Research Logistics, Decision Sciences, European Journal of Operational Research
- Judge, POMS Supply Chain Management College, Student Paper Competition, 2007, 2008, 2009, 2015
- Judge, MSOM Student Paper Competition, 2006, 2007, 2008, 2009, 2011, 2012, 2013
- Referee, MSOM Annual Meeting, 2006, 2008, 2009
- Referee, MSOM Sustainable Operations SIG Mini-conference, 2015
- Invited session chair, INFORMS Annual Meeting, Pittsburgh, PA, November 2006
- Panelist on job search and research issues, Doctoral Consortium at the Annual POMS Meeting, April 29, 2006
- Invited session chair, INFORMS Annual Meeting, San Francisco, CA, November 2005
- Judge, INFORMS Decision Analysis Society PhD Student Paper Award, 2005

UNIVERSITY SERVICE

At North Carolina State University

- Member, dissertation committee for Megan Jaunich (Ph.D. student in the Department of Civil, Construction and Environmental Engineering at NCSU)

At UNC-Chapel Hill

- Co-advisor (with A. Parlakturk) for the summer paper of Ph.D. Student Adem Orsdemir, 2010
- Co-advisor (with J. Swaminathan) of Ph.D. Student Gokce Esenduran, 2005-2010 (Gokce Esenduran was awarded a Dissertation Completion Fellowship by UNC and joined the Fisher College of Business at the Ohio State University as an assistant professor in Fall 2010. She is the co-winner of the 2011 Elwood S. Buffa dissertation award presented by the Decision Sciences Institute.)
- MBA Integrative Exercise, Judge, January 2011
- GE Case Competition, Judge, October 2010

- Dissertation Committee Member (Muge Yayla Kullu), defended in August 2008, first placement at The Lally School of Management and Technology at RPI
- Panelist, Academic Life Panel in Carolina 101, Fall 2007

- Dissertation Committee Member (Almula Camdereli), defended in January 2006, first placement at McDonough School of Business at Georgetown University
- Second-year Paper Committee Member (Almula Camdereli and Gokce Esenduran)
- Interviewed BSBA applicants, January 2007, December 2007, December 2008
- Organizer, OTIM Departmental Seminar Series, Spring 2005, Fall 2005, Spring 2006
- Honor's Thesis Committee Member (Tim Brunt, Spring 2010; Kristen Van Leuven, Spring 2006)
- Case discussant, 2005 BSBA New Student Orientation

PROFESSIONAL ORGANIZATIONS

- Member, Institute for Operations Research and the Management Sciences (INFORMS)
- Member, Production and Operations Management Society
- Member, Women in OR/MS