

Biographical Sketch of Sila Çetinkaya

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1. Professional Preparation

Ph.D., Management Science, McMaster University, Hamilton, Ontario, Canada, 1992–1996.

M.Sc., Industrial Engineering, Bilkent University, Ankara, Turkey, 1989–1991.

B.Sc., Industrial Engineering, İstanbul Technical University, İstanbul, Turkey, 1985–1989.

2. Appointments

- Present–Sep’03** Associate Professor, Industrial Engineering, Texas A&M University.
Aug’03–Sep’97 Assistant Professor, Industrial Engineering, Texas A&M University.
May’02 Visiting Scholar, Industrial Engineering & Engineering Management, Hong Kong University of Science and Technology.
Aug’97–Sep’96 Research Associate, Management Sciences, University of Waterloo.
Aug’96–Sep’92 RA, TA, and Instructor, School of Business, McMaster University.
Aug’92–Mar’91 Project Engineer, Bilkent University and Petkim Holding, Turkey.
Aug’92–Feb’90 RA and TA, Industrial Engineering, Bilkent University, Turkey.

3. Research/Teaching Interests

Supply Chain Management, Inventory Theory, Stochastic Modeling, Applied Probability.

4. Selected Honors and Awards

1. CAREER Award, National Science Foundation, 2001–2006.
2. Special Research Fellow Award, Texas Engineering Experiment Station, 2001.
3. Meritorious Service Award, *Operations Research*, INFORMS, 2002.
4. Dwight Look College of Engineering Faculty Fellow Award, Texas A & M University, 2003.
5. Outstanding Young Industrial Engineer Award, IIE, 2003.
6. BP Faculty Award for Teaching Excellence, Texas A&M University, 2004.

5. Current Peer-Reviewed Funding

“CAREER-Coordination of Transportation and Inventory Decisions,” *National Science Foundation*, 2001-2006, \$371,327.

6. Selected Representative Papers (in reverse chronological order)

- Çetinkaya, S., F. Mutlu, and C.-Y. Lee, “A Comparison of Outbound Dispatch Policies for Integrated Inventory and Transportation Decisions,” *European Journal of Operational Research*, in press, published on-line March 2005.
- Jaruphongsa, W., S. Çetinkaya, and C.-Y. Lee, “A Dynamic Lot-Sizing Model with Multi-Mode Replenishments: Polynomial Algorithms for Special Cases with Dual and Multiple Modes,” *IIE Transactions*, Vol. 37, No. 5, pp. 453–467, 2005.
- Çetinkaya, S., “Coordination of Inventory and Shipment Consolidation Decisions: A Review of Premises, Models, and Justification,” Chapter 1 in *Applications of Supply Chain Management and E-Commerce Research in Industry*, edited by Geunes, J. et. al, Kluwer Series: Applied Optimization, Vol. 92, 2004.
- Jaruphongsa, W., S. Çetinkaya, and C.-Y. Lee, “A Two-Echelon Inventory Optimization Model with Demand Time Window Considerations,” *Journal of Global Optimization*, Vol. 30, No. 5, pp. 357–366, 2004.
- Jaruphongsa, W., S. Çetinkaya, and C.-Y. Lee, “Warehouse Space Capacity and Demand Time Window Considerations in Dynamic Lot-Sizing for a Simple Supply Chain,” *International Journal of Production Economics*, Vol. 92, No. 2, pp. 169–180, 2004.
- Çetinkaya, S. and M. Parlar, “Computing a Stationary Base-Stock Policy for a Finite Horizon Problem with Non-linear Stockout Costs,” *Stochastic Analysis and Applications*, Vol. 22, No. 3, pp. 589–625, 2004.
- Lee, C.-Y., S. Çetinkaya, and W. Jaruphongsa, “A Dynamic Model for Inventory Lot-Sizing and Outbound Shipment Scheduling at a Third Party Warehouse,” *Operations Research*, Vol. 35, No. 5, pp. 735–747, 2003.
- Toptal, A., S. Çetinkaya, and C.-Y. Lee, “The Buyer-Vendor Coordination Problem: Modeling Inbound and Outbound Cargo Capacity and Costs,” *IIE Transactions*, Vol. 35, No. 11, pp. 987–1002, 2003.
- Çetinkaya, S. and J. H. Bookbinder, “Stochastic Models for the Dispatch of Consolidated Shipments,” *Transportation Research B*, Vol. 37, No. 8, pp. 747–768, 2003.

- Çetinkaya, S. and M. Parlar, “Optimality Conditions for an (s, S) Policy with Proportional and Lump-Sum Penalty Costs,” *Management Science*, Vol. 48, No. 12, pp. 1635–1639, 2002.
- Çetinkaya, S. and C.-Y. Lee, “Optimal Outbound Dispatch Policies: Modeling Inventory and Cargo Capacity,” *Naval Research Logistics*, Vol. 49, No. 6, pp. 531–556, 2002.
- Lee, C.-Y., S. Çetinkaya, and A. P. M. Wagelmans, “Dynamic Lot-Sizing Model with Demand Time Windows,” *Management Science*, Vol. 47, No. 10, pp. 1384–1395, 2001.
- Çetinkaya, S. and C.-Y. Lee, “Stock Replenishment and Shipment Scheduling for Vendor Managed Inventory Systems,” *Management Science*, Vol. 46, No. 2, pp. 217–232, 2000.
- Çetinkaya, S. and M. Parlar, “Optimal Myopic Policy for a Stochastic Inventory Problem with Fixed and Proportional Backorder Costs,” *European Journal of Operational Research*, Vol. 110, pp. 20–41, 1998.
- Çetinkaya, S. and M. Parlar, “Nonlinear Programming Analysis to Estimate Implicit Inventory Backorder Costs,” *Journal of Optimization Theory and Applications*, Vol. 96-1, pp. 71–92, 1998.
- Çetinkaya, S. and M. Parlar, “Optimal Non-Myopic Gambling Strategy for the Generalized Kelly Criterion,” *Naval Research Logistics*, Vol. 44, pp. 639–654, 1997.
- Çetinkaya, S. and C. H. Falkner, “Manufacturing Flexibility in the Context of Multi-Machine Replacement Decisions,” *International Journal of Manufacturing System Design*, Vol. 2, No. 4, pp. 277–296, 1995.

7. Selected Seminars and Presentations

Invited Research Seminars since 2000 (in alphabetical order)

- Applied Materials, Austin, TX, Oct’02.
- Case Western Reserve University, Weatherhead School of Management, Feb’04.
- Northwestern University, Industrial Engineering and Management Sciences, Dec’01.
- Purdue University, Industrial Engineering, Oct’01.
- Texas A&M University, Mathematics Department, Nov’02.
- The Hong Kong Polytechnic University, Department of Management, May’02.
- The University of Texas at Dallas, School of Management, Oct’04.
- University Illinois at Chicago, Mechanical and Industrial Engineering, Mar’00.
- University of Michigan, Industrial and Operations Engineering, Sep’01.

- University of North Carolina, Kenan-Flagler Business School, Sep'01.
- University of Texas at Austin, Manufacturing 2020 Lecture Series, Mar'02.
- University of Toronto, Mechanical and Industrial Engineering, Jan'00.
- York University, Schulich School of Business, Feb'00.

Invited Conference Presentations since 2003 (in reverse chronological order)

- Mutlu, F. and S. Çetinkaya, "The Transporter's Impact on Channel Coordination and Contractual Agreements," presented at the *Fourth Annual Supply Chain Optimization Conference*, Cocoa Beach, FL, February 2005.
- Atasu, A. and S. Çetinkaya, "Optimal Use of Remanufacturing Returns via Collector-Manufacturer Coordination," presented at *EUROMA 2004: Operations Management As A Change Agent*, INSEAD, Fontainebleau, France, June 2004.
- Mutlu, F. and S. Çetinkaya, "Transportation Contracts under Information Asymmetry Considerations," presented at the *IIE Annual Conference*, Houston, Texas, May 2004.
- Liu, X. and S. Çetinkaya, "Supply-Chain Contracts and Supply Uncertainty," presented at the *IIE Annual Conference*, Houston, Texas, May 2004.
- Toptal, A. and S. Çetinkaya, "Decentralized Models for Buyer-Vendor Coordination under Generalized Replenishment Costs," presented at the *IIE Annual Conference*, Houston, Texas, May 2004.
- Mutlu, F. and S. Çetinkaya, "Channel Coordination: The Transporter's Impact," presented at the *Third Annual Supply Chain Optimization Conference*, Gainesville, FL, February 2004.
- Liu, X. and S. Çetinkaya, "Supply Chain Contract Design in Supplier- Versus Buyer-Driven Channels," presented at the *Third Annual Supply Chain Optimization Conference*, Gainesville, FL, February 2004.
- Mutlu, F. and S. Çetinkaya, "Channel Coordination for Transportation Contract Value Assessment," presented at the *INFORMS Meeting*, Atlanta, GA, October 2003.
- Mutlu, F. and S. Çetinkaya, "Transportation Contract Value Problems in Two-Echelon Settings," presented at the *EURO-INFORMS Meeting*, İstanbul, Turkey, July 2003.
- Jaruphongsa, W., S. Çetinkaya, and C.-Y. Lee, "A Two-Echelon Inventory Optimization Model with Demand Time Window Considerations," presented at the *EURO-INFORMS Meeting*, İstanbul, Turkey, July 2003.

8. Graduate Student Advising

- Ph.D. Students Graduated:
 - Wikrom Jaruphongsa (co-chair) [2001], “A General Class of Dynamic Lot-Sizing Models for Effective Logistics Management,” Assistant Professor, National University of Singapore, Department of Industrial and Systems Engineering, Singapore.
 - Aysegül Toptal [2003], “Generalized Models and Benchmarks for Channel Coordination,” Assistant Professor, Bilkent University, Department of Industrial Engineering, Ankara, Turkey.
 - Xingchu Liu [2005], “Supply Chain Contract Design in Supplier- Versus Buyer-Driven Channels,” Senior Supply Chain Consultant, Zilliant, Austin, TX.
- Ph.D. Students In-progress: G. Easwaran (co-chair,) B. B. Keskin (co-chair,) F. Mutlu.
- M.S. and M.Eng. Students Graduated: 22 students (Theses: 2, Academic/Internship Projects: 11, Coursework only: 9.)
- M.S. and M.Eng. Students In-progress: 3 students (2 projects, 1 coursework only.)

9. Selected Service Activities

- Associate Editor - *IIE Transactions on Scheduling and Logistics*, since July 2001.
- Research Proposal Reviewer/Panelist - NSF (DMII) Unsolicited Proposal Review Panels, Dutch Research Council, Erasmus University (Rotterdam, The Netherlands.)
- Awards Committee Member - IIE/Joint Publishers Book-of-the-Year Award.
- Book-Proposal, Book-Chapter, and Book Reviewer - Prentice-Hall, Kluwer.
- Referee for several journals including (in alphabetical order) *IIE Transactions*, *Management Science*, *MSOM*, *Naval Research Logistics*, *Operations Research*, and *Transportation Science* among others.
- Chair - Doctoral Colloquium, INFORMS/San Antonio Meeting, Texas, 2000.
- Member - INFORMS Membership Committee, since March 2000.
- Chair - Paper Competition, Junior Faculty Interest Group, INFORMS, 2004.
- Co-chair - Invited Sessions, INFORMS/New Orleans Meeting, Louisiana, 2005.
- President Elect - Women in ORMS, INFORMS, 2005.
- Senator - Faculty Senate, elected April 2004, 2004–2007.

10. Professional Affiliations

INFORMS, IIE, WELI (Women Engineering Leadership Institute.)

Spring 2005.