

DONALD D. EISENSTEIN

Professor of Operations Management
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Professional Interests

Self-organizing logistics systems, service systems, health care, warehouse management systems, order-picking, inventory replenishment.

Employment and Education

2001-Present Professor of Operations Management, Booth School of Business,
University of Chicago, Chicago, IL.

2004-2005 David W. Johnson Professor of Operations Management, Graduate School of Business,
University of Chicago, Chicago, IL.

2002-2003 David W. Johnson Professor of Operations Management, Graduate School of Business,
University of Chicago, Chicago, IL.

1996-2001 Associate Professor of Operations Management, Graduate School of Business,
University of Chicago, Chicago, IL.

1992-1996 Assistant Professor of Production Management, Graduate School of Business,
University of Chicago, Chicago, IL.

1992 Ph.D., Operations Research, Georgia Institute of Technology, Atlanta, GA

1985-1989 Systems Engineer, E-Systems, Inc., Dallas, TX.

1983 M.S., Operations Research, Georgia Institute of Technology, Atlanta, GA

1982 B.S., Engineering Management, Southern Methodist University, Dallas, TX

1982 B.S., Mathematical Science, Southern Methodist University, Dallas, TX

Research Papers

“A Production Line that Balances Itself”, with John J. Bartholdi, III. *Operations Research* **44**(1) (1996), special issue on “New Directions in Operations Management”.

“Separating Logistics Flows in the Chicago Public School System”, with Ananth. V. Iyer. *Operations Research* **44**(2) (1996).

“The Agility of Bucket Brigade Production Lines”, with John J. Bartholdi, III. Refereed conference proceedings, Flexible Automation and Intelligent Manufacturing (1996).

“Garbage Collection in Chicago — A Dynamic Scheduling Model” with Ananth. V. Iyer. *Management Science* **43**(7) (1997).

“Dynamics of 2- and 3-Worker ‘Bucket Brigade Production Lines’”, with John J. Bartholdi, III, and Leonid A. Bunimovich. *Operations Research* **47**(3) (1999).

“Performance of Bucket Brigades When Work Is Stochastic”, with John J. Bartholdi, III and Robert D. Foley. *Operations Research* **49**(5) (2001).

“Recovering Cyclic Schedules Using Dynamic Produce Up-To Policies”. *Operations Research* **53**(4) (2005).

“Using Bucket Brigades to Migrate from Craft Manufacturing to Assembly Lines”, with John J. Bartholdi, III. *Manufacturing and Service Operations Management* **7**(2) (2005).

“Bucket brigades on in-tree assembly lines”, with John J. Bartholdi, III, and Y. F. Lim, *European Journal of Operational Research* **168**(3) (2006), special issue on ‘Balancing Assembly and Transfer Lines’.

“Analysis and Optimal Design of Discrete Order Picking Technologies Along a Line”, *Naval Research Logistics* **55**(4) (2008)

“Getting Supply Chain on the CEO’s Agenda” with Richard H. Thompson and Timothy M. Stratman. *Supply Chain Management Review*, July/August 2007.

“Deterministic Chaos in a Model of Discrete Manufacturing ”,
with John J. Bartholdi, III, and Y. F. Lim. *Naval Research Logistics* **56**(4)(2009)

“A self-coordinating bus route to resist bus-bunching”,
with John J. Bartholdi, III. *Transportation Research Part B* **46**(2012).

“Using storage profiles and truncated bucket brigades to improve order picking productivity”,
with Yeming Gong. *Under Revision*

“Managing Inpatient Bed Capacity of a Hospital”,
with Thomas Best, David Meltzer, and Burhaneddin Sandikci. *Working Paper*

Funded Research

“Production Lines That Balance Themselves”, National Science Foundation,
1992-1994, \$120,000. Co-principal investigator.

IBM Manufacturing Fellowship, 1991-1992, \$18,279.

IBM Corporation Scholar, 1996/97, \$4,000.

Honors and Awards

2012 Best Paper Award. INFORMS Transportation Science And Logistics Section
“A self-coordinating bus route to resist bus-bunching”,
with John J. Bartholdi, III. *Transportation Research Part B* **46**(2012).

Elected to College Industry Council on Material Handling Education (CICHME)
Committee Chair of Academic Services: 2010–2012.

Hillel J. Einhorn Excellence in Teaching Award. International Executive Education,
Graduate School of Business, University of Chicago, 2001.

2000 Award for Technical Innovation in Industrial Engineering.
The Institute for Industrial Engineers

1999 *Operations Reseach*, Meritorious Service Award.

Ph.D. Dissertation Award

First Prize in 1992 Research Awards Competition.

School of Industrial and Systems Engineering

Georgia Institute of Technology, Atlanta, GA.

Dissertation Title: “Self-Organizing Production Systems”.

Alumni Award

Election to “Council of Outstanding Young Engineering Alumni”

Georgia Institute of Technology, Atlanta, GA., March 1996.

Nominated for “1996 Emory Williams Award for Excellence in Teaching”

Graduate School of Business, University of Chicago.

Industrial Consulting/Research Projects

Apparel Industry:

Transforming domestic manufacturers to be competitive through reduced lead times and lower inventory. Moving the firm from traditional bundle production to cellular production with self-organizing, multifunctional work teams.

Champion Products, Riverside Fashions, The Coach Factory.

Warehousing/Distribution:

Improving the firms order picking operation by implementing self-organizing work teams.

Big B, Blockbuster Music, Eckerd's Drugs, Fel-Pro, Rank Video Services America, Revco Drug Stores, Inc., and Superclub Music.

e-commerce:

Design of product layout, order fulfillment processes, order-picking processes, and courier routing.
Urbanfetch, Inc.