

# John Hartley Semple

Eugene J. and Ruth F. Constantin, Jr. Distinguished Chair in Business  
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## BUSINESS ADDRESS

Department of Information Technology and Operations Management  
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## EDUCATION

Ph.D. Management Science/Mathematics, The University of Texas at Austin, December, 1990.  
M.Sc. Applied Mathematics, McGill University, 1985.  
B.Sc. Mathematics, McGill University, 1983 (With Great Distinction).

## REFEREED JOURNAL ARTICLES

"Testing a Theory of Strategic Multi-Product Choice" with Ed Fox and Hristina Dishkova, forthcoming in *Quantitative Marketing and Economics*.

"Heteroscedastic Exponential Choice," (with Aydin Alptekinoglu), *Operations Research*, 69(3), (2021) 683-1013.

"Choosing an n-Pack of Substitutable Products" (with Ed Fox and Laura Norman), *Management Science*, Vol. 64(5), (2018) 2366-2379.

"The Exponential Choice Model: A New Alternative for Assortment and Price Optimization" (with Aydin Alptekinoglu), *Operations Research*, Vol. 64(1), (2016) 79-93.  
(<http://dx.doi.org/10.1287/opre.2015.1459>)

"Dynamic Road Pricing for Revenue Maximization: Modeling Framework and Solution Methodology," with A. Hassan and K. Abdelghany, *Transportation Research Record: Journal of the Transportation Research Board*, Vol. 2345, (2013) 100-108.

"A Dynamic Inventory Model with the Right of Refusal," (with S. Bhaskaran and K. Ramachandran), *Management Science*, 56(12), (2010) 2265-2281.

"Optimal Category Pricing with Endogenous Store Traffic," (with E. Fox and S. Postrel), *Marketing Science*, 28(4) (2009) 709-720.

"Note: Generalized Notions of Concavity with an Application to Capacity Management," *Operations Research*, 55(2) (2007) 284-291.

“Quality-Based Competition, Profitability, and Variable Costs,” (with C. Chambers and P. Kouvelis), *Management Science*, **52**(12) (2006) 1884-1895.

[Online companion document: <http://www.informs.org/site/ManSci/article.php?id=49>]

“Optimal Inventory Policy with Two Suppliers,” (TN) (with E. Fox and R. Metters), *Operations Research*, **54**(2) (2006) 389-393. [Online companion document available at: <http://www.informs.org/site/OperationsResearch/index.php?c=122&kat=TOC+v54.2>]

“A Heuristic for Multi-item Production with Seasonal Demand,” (with M. Ketzenberg and R. Metters) *IIE Transactions*, **38** (2006) 201-211.

“The Impact of Provider Autonomy on HMO Efficiency,” (with P. Brockett, R. Chang, J.J. Rousseau, and C. Yang) *Journal of Risk and Insurance*, **71**(1) (2004) 1-19. [2005 Robert C. Witt Award for best feature paper published in JRI in 2004]

“The Impact of Check Sequencing on NSF Fees,” (with U. M. Apte, A. Apte, R. P. Beatty and I. Sarkar) *Interfaces*, **34**(2) (2004) 97-105.

“Managing Inventory with Multiple Products, Lags in Delivery, Resource Constraints, and Lost Sales: A Mathematical Programming Approach,” (with B. Downs and R. Metters), *Management Science*, **47**(3) (2001) 464-479.

“Vendor Selection with Bundling: A Comment,” (with J. Sarkis), *Decision Sciences*, **30**(1) (1999) 265-271.

“Optimization of Dual Response Systems: A Comprehensive Procedure for Degenerate and Nondegenerate Problems,” (with E. Del Castillo and S. Fan) *European Journal of Operational Research*, **112**(1) (1999) 174-186.

“Economic Justification for Incremental Implementation of Advanced Manufacturing Technologies,” (with V. Lotfi and J. Sarkis) *Journal of the Operational Research Society*, **49**(8) (1998) 829-839.

“Optimality Conditions and Solution Procedures for Nondegenerate Dual Response Systems,” *IIE Transactions*, **29**(9) (1997) 743-752.

“The Computation of Global Optima for Dual Response Systems,” (with E. Del Castillo and S. Fan), *Journal of Quality Technology (Computer Programs Section)*, **29**(3) (1997) 347-353.

“Constrained Games for Evaluating Organizational Performance,” *European Journal of Operational Research*, **96**(1) (1997) 103-112.

“Dominant Competitive Factors for Evaluating Program Efficiency in Grouped Data,” (with J.J. Rousseau) *Annals of Operations Research*, **73** (1997) 253-276.

“Sensitivity and Stability of Efficiency Classifications in Data Envelopment Analysis,” (with A. Charnes and J.J. Rousseau) *Journal of Productivity Analysis*, **7**(1) (1996) 5-18.

“Infinite Positive Definite Quadratic Programming in a Hilbert Space,” *Journal of Optimization Theory and Applications*, **88**(3) (1996) 743-749.

“Two-Person Ratio Efficiency Games,” (with J.J. Rousseau) *Management Science*, **41**(3) (1995) 435-441.

“Radii of Classification Preservation in Data Envelopment Analysis: a Case Study of Program Follow Through,” (with J.J. Rousseau) *Journal of the Operational Research Society*, **46**(8) (1995) 943-957.

“An Optimal Multi-Machine Replacement Policy in a Serially Dependent Production System,” (with J. Sarkis) *International Journal of Production Research*, **32**(11) (1994) 2657-2667.

“An Effective Non-Archimedean Anti-Degeneracy/Cycling Linear Programming Method Especially for Data Envelopment Analysis and Like Models,” (with A. Charnes and J.J. Rousseau) *Annals of Operations Research*, **47** (1993) 271-278.

“Notes: Categorical Outputs in Data Envelopment Analysis,” (with J.J. Rousseau) *Management Science*, **39**(3) (1993) 384-386.

“Non-Archimedean Infinitesimals, Transcendentals and Categorical Inputs in Linear Programming and Data Envelopment Analysis,” (with A. Charnes and J.J. Rousseau) *International Journal of Systems Science*, **23**(12) (1992) 2401-2406.

“Assessing the Relative Efficiency of Agricultural Production Units in the Blackland Prairie, Texas,” (with S. Haag and P. Jaska) *Applied Economics*, **24** (1992) 559-565.

“Sensitivity of Efficiency Classifications in the Additive Model of Data Envelopment Analysis,” (with A. Charnes, P. Jaska and S. Haag) *International Journal of Systems Science*, **23**(5) (1992) 789-798.

“Semi-Infinite Relaxation of Joint Chance Constraints in Chance-Constrained Programming Part 1. Zero-Order Stochastic Decision Rules,” (with A. Charnes and Y.C. Chang) *International Journal of Systems Science*, **23**(7) (1992) 1051-1061.

“Practical Error Bounds for a Class of Quadratic Programming Problems,” (with A. Charnes) *Informatica*, **2**(3) (1991) 352-366.

“On a Necessary Condition for Stability in Perturbed Linear and Convex Programming,” (with S. Zlobec) *Zeitschrift für Operations Research*, **31** (1987) 161-172.

“On the Continuity of a Lagrangian Multiplier Function in Input Optimization,” (with S. Zlobec) *Mathematical Programming*, **34** (1986) 362-369.

## **PAPERS UNDER REVIEW, WORK in PROGRESS**

“Equitable Appointment Scheduling at a Healthcare Clinic: A Data-Driven Markov Chain Approach” with Chester Chambers (SMU) and Mac Dada (Johns Hopkins).

“Momentum-Based Models in Social Media Networks,” with Rajiv Mukherjee (Texas A&M).

“Mixed Exponential” with Aydin Alptekinoglu (Penn State), in progress.

## **EDITORIAL BOARDS**

***Senior Editor, Production and Operations Management, (2003-2014)***

***Associate Editor, Interfaces (INFORMS) (2004-2009)***

***Associate Editor, OMEGA (2004-2006)***

## **ACADEMIC POSITIONS AND EMPLOYMENT**

*Eugene J. and Ruth F. Constantin, Jr. Distinguished Chair in Business* (Aug. 1, 2020–), Department of Information Technology and Operations Management, SMU.

*Charles Wyly Professor of MIS* (Aug. 1, 2009–July 31, 2020), Department of Information Technology and Operations Management, SMU.

Department Chairman of Information Technology and Operations Management (ITOM) (May 2009-May 2012), Cox School of Business, SMU.

*Associate Professor of ITOM* (Fall 2001–2009), Department of Information Technology and Operations Management, Edwin L. Cox School of Business, SMU.

*Assistant Professor of Information Systems and Operations Management* (Fall 1997–Fall 2001), Department of Management Information Sciences, Edwin L. Cox School of Business, SMU.

*Visiting Assistant Professor of Management Information Sciences* (Fall 1996 – Summer 1997), Department of Management Information Sciences, Edwin L. Cox School of Business, SMU.

*Research Fellow*, (1992 – present), Center for Management of Operations and Logistics (CMOL), The University of Texas at Austin, CBA 5.202, Austin, TX 78712-1177.

*Assistant Professor of Management Sciences* (1992 – 1996), Department of Information Systems and Management Sciences, The University of Texas at Arlington.

*Visiting Assistant Professor of Management Sciences* (1990 – 1992), Department of Information Systems and Management Sciences, The University of Texas at Arlington.

*Assistant Instructor of Mathematics* (1989 – 1990), The University of Texas at Austin.

## **HONORS, AWARDS, FELLOWSHIPS (SMU)**

- 1997 Distinguished BBA Teaching Award (top BBA teaching award)
- 1999 Recognition for Outstanding Teaching in the MBA Program
- 2001 Recognition for Outstanding Teaching in the MBA Program
- 2001 Cox School of Business Research Excellence Award (top research award)
- 2002 Nominated for SMU Distinguished Teacher Award
- 2002 Corrigan Research Fellowship
- 2003 Distinguished MBA Teaching Award (top MBA teaching award)
- 2003 Corrigan Research Fellowship
- 2004 Robert C. Witt Award for Best Paper Published in JRI for 2004
- 2004 Corrigan Research Fellowship
- 2005 Most Valuable EMBA Professor Award (top EMBA teaching award)
- 2005 Corrigan Research Fellowship
- 2006 Recognition for Outstanding Teaching in the MBA Program
- 2006 Corrigan Research Fellowship
- 2007 Distinguished MBA Teaching Award (top MBA teaching award)
- 2007 Corrigan Research Fellowship
- 2008 Recognition for Outstanding Teaching in the MBA Program
- 2008 Eugene T. Byrne Endowed Faculty Innovation Award
- 2009 Boghetich Family Distinguished Teaching Award
- 2010 Cox School of Business Research Excellence Award
- 2014 Boghetich Family Distinguished Teaching Award
- 2015 Recognition for Outstanding Teaching in the MBA Program
- 2016 Recognition for Outstanding Teaching in the MBA Program
- 2020 Boghetich Family Distinguished Teaching Award

## **COMMITTEES AND SERVICE**

SMU Cox Graduate Policy Committee) (2001–2006, 2011-present).

SMU Cox Promotion and Tenure Committee, (2002–2006; 2012-2013 2018-).

SMU University Promotion and Tenure Committee (2018-2021)

SMU Data Science Task Force Committee (2021–)

Global Leadership Program (an international course for MBA students taught each May), 2002–2003 (Japan), 2003–2004 (Europe), 2004–2005 (Latin America), 2005–2006 (China), 2009-2010 (India), 2010-2011 (India).

SMU Faculty Senate (2006–2008).

Faculty Senate Committee on Ethics and Tenure (2013-2015).

Chairman, ITOM Department, (Fall, 2009–Fall, 2012).

