

DOUGLAS J. MORRICE

University Address:

IROM Department
Red McCombs School of Business
The University of Texas at Austin
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10001 Brandywine Circle
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Education:

- Cornell University: Ph.D. in Operations Research and Industrial Engineering,
August, 1990.
- Cornell University M.S. in Operations Research and Industrial Engineering,
May, 1988.
- Carleton University B.A. Honors in Mathematics and Operations Research,
November, 1985.

Professional Experience:

- Associate Dean Undergraduate Program, McCombs School of Business, The University of Texas at Austin, 2019 to present.
- Professorship: Bobbie and Coulter R. Sublett Centennial Professor of Business, Red McCombs School of Business, The University of Texas at Austin, 2009 to present.
- Professor: Department of Information, Risk, and Operations Management, The University of Texas at Austin, 2005 to present.
- Visiting Academic Scholar: Cornell Institute for Healthy Futures, Cornell University, Summer 2019
- Chair: Department of Information, Risk, and Operations Management, The University of Texas at Austin, 2007 to 2011.
- Director: Supply Chain Management Center of Excellence, The University of Texas at Austin, 2007 to 2016.
- Professor: Management Department (Operations Management) The University of Texas at Austin, 2003 to 2005.
- Director: Supply Chain Management Consortium The University of Texas at Austin, 2002 to 2007.
- Professor: Management Science and Information Systems Department, The University of Texas at Austin, 2002 to 2003.
- Graduate Advisor: Management Science and Information Systems Department, The University of Texas at Austin, 2002 to 2003.
- Associate Professor: Management Science and Information Systems Department, The University of Texas at Austin, 1996 to 2002.

Visiting Research Scientist: Schlumberger Austin Product Center, 1996.
Assistant Professor: Management Science and Information Systems Department,
The University of Texas at Austin, 1990 to 1996.
Instructor: School of Operations Research and Industrial Engineering,
Cornell University, 1987 to 1989.
Research/Teaching Assistant: School of Operations Research and Industrial Engineering,
Cornell University, 1985 to 1990.
Analyst: DMS Operations Research Department,
Bell Northern Research, Ottawa, Canada, Summer 1986.
Teaching Assistant: Department of Mathematics and Statistics,
Carleton University, Ottawa, Canada, Spring 1985.
Junior Analyst: Finance and Rate Planning Department,
Canada Post Corporation, Ottawa, Canada, Summer 1984.

Teaching Experience:

Professor, McCombs School of Business/Dell Medical School, The University of Texas at Austin:
HCT 382 Redefining Health Delivery Solutions, Fall 2019
Professor, IROM Department, The University of Texas at Austin:
OM 386 (Service Operations Management), Spring 2017.
Professor, IROM Department, The University of Texas at Austin:
OMF 380.17 (Supply Chain Analytics), Summer 2014, Spring 2015.
Professor, IROM Department, The University of Texas at Austin:
OM 337.2 (Supply Chain Modeling and Optimization), Spring 2014, Fall 2014.
Professor, McCombs School of Business, Executive Education Open Enrollment Module on
“Supply Chain Sales and Operations Planning and Logistics,” October 2012, August
2013, August 2014, August 2015, August 2016, August 2017, August 2018.
Professor, IROM Department, The University of Texas at Austin:
OM 368 (Logistics and Inventory Management), Fall 2011, Spring 2012, Fall 2012,
Spring, 2013, Fall 2013, Spring 2014, Fall 2014, Spring 2015, Spring 2016, Fall 2016,
Spring 2017, Fall 2017 (2 sections), Fall 2018, Spring 2019, Fall 2019
Professor, IROM Department, The University of Texas at Austin:
OM 335 (Operations Management), Fall 2008, Fall 2009, Spring 2010, Summer 2016,
Summer 2017, Summer 2018, Fall 2018.
Professor, IROM Department, The University of Texas at Austin:
OM 335H (Honors Operations Management), Spring 2007, Spring 2008, Fall 2019
Professor, IROM Department, The University of Texas at Austin:
BA 380D (MBA Core: Operations Management), Fall 2006.
Professor, IROM Department, The University of Texas at Austin:
MAN 335H / MSC 335H (Honors Operations Management), Spring 2006.
Professor, Management Department, The University of Texas at Austin:
MAN 335H (Honors Operations Management), Spring 2004, Fall 2004, Spring 2005.
Professor, MSIS Department, The University of Texas at Austin:
MSC 371H (Honors Management Science), Fall, 2002, Fall 2003.
Associate Professor, MSIS Department, The University of Texas at Austin:
STA 309H (Honors Business Statistics), Spring, 2002.

MSC 371H (Honors Management Science), Fall, 1997-2001.
MIS 383N/MAN 386 (Supply Chain Management), Spring, 1997-2000, Fall 2000.
MSC 380.6 (Systems Simulation), Spring, 1997-2000.
Professional Short Course in Supply Chain Management for PriceWaterhouseCoopers.
Executive Education Module in Supply Chain Management, ISAD Program, Spring, 2000.

Visiting Research Scientist, Schlumberger Austin Product Center:

Professional Short Course in Discrete Event Simulation, Summer, 1996.

Assistant Professor, MSIS Department, The University of Texas at Austin:

BA 390D (Database Management and Decision Support Systems), Spring, 1995.

MSC 380.17 (Logistics and Supply Chain Management), Fall, 1994, 1995, Spring, 1996.

MSC 380.16 (Graduate Seminar), Fall, 1994, Spring, 1995.

STA 380 (Statistical Methods in Service and Manufacturing Processes), Spring, 1994.

STA 309 (Elementary Business Statistics), Fall, 1993.

STA 309H (Elementary Business Statistics - Honors Program), Spring, 1992, 1993.

BA 380M (Management Science), Fall, 1991, 1992.

MSC 380.6 (Systems Simulation), Spring, 1991 to 1995.

MSC 371H (Honors Management Science), Fall, 1990, 1991, 1995.

Instructor, School of Operations Research and Industrial Engineering, Cornell University:

OR410 (Industrial Systems Engineering), Summer, 1987 to 1989, Spring, 1988.

Teaching Assistant, School of Operations Research and Industrial Engineering, Cornell University:

OR410 (Industrial Systems Engineering), Spring, 1990.

OR680 (Simulation), Spring, 1987.

OR580 (Digital Systems Simulation), Fall, 1986, 1989.

Teaching Assistant, Mathematics Department, Cornell University:

Math372 (Elementary Statistics), Fall, 1985.

Teaching Assistant, Department of Mathematics and Statistics, Carleton University:

69.251 (Applied Statistics), Spring, 1985.

Journal Publications:

Xiao, H., L. H. Lee, D. J. Morrice, C. H. Chen. Selecting the Best System Using Transient Means with Sequential Sampling Constraints (To appear in *IIE Transactions*).

Hur, Y., J. F. Bard, and D. J. Morrice. Appointment Scheduling at a Multidisciplinary Outpatient Clinic Using Stochastic Programming (To appear in *Naval Research Logistics*).

Morrice, D. J., J. F. Bard, and K. M. Koenig. Designing and Scheduling a Multi-provider Integrated Practice Unit for Patient-Centered Care. (To appear in *Health Systems*).

Wang, D. E., K. Muthuraman, D. J. Morrice. 2019. Coordinated Patient Appointment Scheduling for a Multistation Healthcare Network. *Operations Research* **67**(3), 599-618.

Zhang, P., J. F. Bard, and D. J. Morrice. 2019. Extended Open Shop Scheduling with Resource Constraints: Appointment Scheduling for Integrated Practice Units. *IIE Transactions* **51**(10), 1037-1060.

Vetter, T. R. and D. J. Morrice. 2019. Statistical Process Control: No Hits, No Runs, No Errors? Basic Tutorial. *Anesthesia & Analgesia* **128**(2), 374-382.

Jia, S., D. J. Morrice, J. F. Bard. 2019. A Performance Analysis of Dispatch Rules for

- Semiconductor Assembly & Test Operations. *Journal of Simulation* **13**(3), 163-180.
- Wang, D. E., D. J. Morrice, K. Muthuraman, J. F. Bard, L. K. Leykum and S. Noorily. 2018. Coordinated Scheduling for a Multi-server Network in Outpatient Pre-operative Care. *Production and Operations Management* **27**(3), 458-479.
- Morrice, D. J., J. F. Bard, L. Leykum, S. Noorily. 2018. The Impact of a Patient-Centered Surgical Home Implementation on Preoperative Processes in Outpatient Surgery. Clinical Note. *IIE Transactions on Healthcare Systems Engineering* **8**(2), 155-166.
- Bard, J. F., Z. Shu, D. J. Morrice, L. K. Leykum. 2017. Constructing Block Schedules for Internal Medicine Residents. *IIE Transactions on Healthcare Systems Engineering* **17**(1) 1-14.
- Morrice, D. J., P. Cronin, F. Tanrisever, and J. C. Butler. 2016. Supporting Hurricane Inventory Management Decisions with Consumer Demand Estimates. *Journal of Operations Management* **45** (Special Issue on Humanitarian Operations), 86-100.
- Bard, J. F., Z. Shu, D. J. Morrice, L. K. Leykum, R. Poursani. 2016. Block Scheduling for Residency Programs. *IIE Transactions* **48**(9), 797-811.
- Bard, J. F., Z. Shu, D. J. Morrice, L. K. Leykum. 2016. Annual Block Scheduling for Internal Medicine Residents with 4+1 Templates. *Journal of the Operational Research Society* **67**(7), 911-927.
- Bard, J. F., Z. Shu, D. J. Morrice, D. E. Wang, R. Poursani, and L. Leykum. 2016. Improving Patient Flow Through a Family Health Clinic. *Health Care Management Science*, **19**(2), 170-191.
- Merrick, J. R. W., J. C. Butler, and D. J. Morrice. 2015. Using Multiattribute Utility Theory to Avoid Bad Outcomes by Focusing on the Best Systems in Ranking and Selection. *Journal of Simulation* **9**, 238-248.
- Morrice, D. J., D. E. Wang, J. F. Bard, L. Leykum, S. Noorily, P. Veerapaneni. 2014. A Patient-Centered Surgical Home to Improve Outpatient Surgical Processes of Care and Outcomes. *IIE Transactions on Healthcare Systems Engineering* **4**, 119-134.
- Heath, S. K., J. F. Bard, and D. J. Morrice. 2013. A GRASP for Simultaneously Assigning and Sequencing Product Families on Flexible Assembly Lines. *Annals of Operations Research* **203**, 295-323.
- Tanrisever, F., D. J. Morrice, D. Morton. 2012. Managing Capacity Flexibility in Make-to-Order Production Environments. *European Journal of Operational Research*, **216**(2), 334-345.
- Monkman, S. K., D. J. Morrice, and J. F. Bard. 2008. A Production Scheduling Heuristic for an Electronics Manufacturer with Sequence Dependent Setup Costs. *European Journal of Operational Research* **187**, 1100–1114.
- Ritchie-Dunham, J. L., D. J. Morrice, E. G. Anderson, and J. S. Dyer. 2007. A Simulation Exercise to Illustrate the Impact of an Enterprise System on a Service Supply Chain. *INFORMS Transactions on Education* **7**(3)
(<http://archive.ite.journal.informs.org/Vol7No3/Ritchie-DunhamMorriceAndersonDyer/>).
- Loveland, J. L., S. K. Monkman, and D. J. Morrice. 2007. Dell Uses New Production Scheduling Algorithm to Accommodate Increased Product Variety. *Interfaces* **37**(3), 209-219.
- Mullarkey, P., G. Butler, S. Gavirneni, and D. Morrice. 2007. Schlumberger uses simulation in bidding and executing land seismic surveys. *Interfaces* **37**(2), 120-132.

- Anderson, E. G., D. J. Morrice, and G. Lundeen. 2006. Stochastic Optimal Control of Staffing and Backlog Policies in a Two-Stage Customized Service Supply Chain. *Production and Operations Management* **15**(2), 262-278.
- Anderson, E. G., D. J. Morrice, and G. Lundeen. 2005. The “Physics” of Capacity and Backlog Management in Service and Custom Manufacturing Supply Chains. *System Dynamics Review* **21**(3), 217-247.
- Ingalls, R. G. and D. J. Morrice. 2004. PERT Scheduling With Resource Constraints Using Qualitative Simulation Graphs. *Project Management Journal* **35**(3), 5-14.
- Gavirneni, S., D. J. Morrice, and P. Mullarkey. 2004. Simulation Helps Maxager Shorten its Sales Cycle. *Interfaces* **34**(2), 87-96.
- Fitzsimmons, J. A., E. G. Anderson, D. J. Morrice, and G. E. Powell. 2004. Managing Service Relationships. *International Journal of Services Technology and Management* **5**(3), 221-232.
- Ingalls, R. G., D. J. Morrice, A. B. Whinston, and E. Yücesan. 2003. Edge Execution Conditions: A Formal Way of Characterizing Event Cancellation in Simulation Graphs. *INFORMS Journal on Computing* **15**(4), 397-411.
- Morrice, D. J., A. Kenyon, C. J. Beckett. 2001. Optimizing Operations in 3D Land Seismic Surveys. *Geophysics* **66**(6), 1818-1826.
- Gavirneni, S., C. Hooykaas, D. J. Morrice. 2001. Simulation of Back Deck Operations on a Marine Seismic Vessel. *Interfaces* **31**(6), 16-28.
- Butler, J., D. J. Morrice, and P. W. Mullarkey. 2001. A Multiple Attribute Utility Theory Approach to Ranking and Selection. *Management Science* **47**(6), 800-816.
- Morrice, D. J. and L. W. Schruben. 2001. A Frequency Domain Metamodeling Approach to Transient Sensitivity Analysis. *IIE Transactions* **33**(3), 229-244.
- Ingalls, R. G., D. J. Morrice, A. B. Whinston. 2000. Implementation of Temporal Intervals in Qualitative Simulation Graphs. *ACM Transactions on Modeling and Computer Simulation* **10**(3), 215-240.
- Anderson, E. G. and D. J. Morrice. 2000. A Simulation Game for Service-Oriented Supply Chain Management: Does Information Sharing Help Managers with Service Capacity Decisions? *Production and Operations Management* **9**(1), 40-55.
- Jacobson, S. H. and D. J. Morrice. 1998. A Mathematical Model for Assessing the Temporal Association Between Health Disorders and Medical Treatments. *Journal of Statistical Planning and Inference* **71**, 209-228.
- Hazra, M., D. J. Morrice, and S. K. Park. 1997. A Simulation Clock-Based Solution to the Frequency Domain Experiment Indexing Problem. *IIE Transactions* **29**(9), 769-782.
- Morrice, D. J. and I. R. Bardhan. 1995. A Weighted Least Squares Approach to Computer Simulation Factor Screening. *Operations Research* **43**, 792-806.
- Morrice, D. J. 1995. A Comparison of Frequency Domain Methodology and Conventional Factor Screening Methods. *Operations Research Letters* **17**, 165-174.
- Morrice, D. J. and M. Song. 1995. An Approximation Method for a Single Server Queue with Cyclically Indexed Arrival and Service Rates. *Applied Mathematics and Computation: Modeling of the Environment* **71**, 247-269.
- Dalle Molle, J. W. and D. J. Morrice. Initial Transient Detection in Simulations Using the Second-Order Cumulant Spectrum. 1994. *Annals of Operations Research* **53**, 443-470.

- Morrice, D. J., R. S. Gajulapalli, and S. R. Tayur. 1994. A Single Server Queue with Cyclically Indexed Arrival and Service Times. *Queueing Systems: Theory and Application* **15**, 165-198.
- Morrice, D. J. and L. W. Schruben. 1993. Simulation Factor Screening Using Harmonic Analysis. *Management Science* **39** (12), 1459-1476.
- Morrice, D. J. and L. W. Schruben. 1993. Simulation Factor Screening Using Cross-Spectral Analysis. *Operations Research Letters* **13**, 247-257.

Refereed Conference Proceedings:

- Morrice, D. J., J. F. Bard, H. Mehta, S. Sahoo, N. B. Arunachalam, P. Venkatraman. Using Simulation to Design a Worklife Integrated Practice Unit. In *Proceedings of the 2018 Winter Simulation Conference*, 2624 – 2635.
- Barton, R. R., J. A. Joines, and D. J. Morrice. 2017. History of the Winter Simulation Conference: Period of Growth, Consolidation, and Innovation (1993-2007). In *Proceedings of the 2017 Winter Simulation Conference*, 87-99.
- Morrice, D. J., J. F. Bard, L. Leykum, and S. Noorily. 2014. A Patient-Centered Surgical Home Post Implementation Analysis (Poster Paper Extended Abstract). In *Proceedings of the 2014 Winter Simulation Conference*, 4127-4128.
- Morrice, D. J., D. E. Wang, J. Bard, L. Leykum, S. Noorily, and P. Veerapaneni. 2013. A Simulation Analysis of a Patient-Centered Surgical Home to Improve Outpatient Surgical Processes of Care and Outcomes. In *Proceedings of the 2013 Winter Simulation Conference*, 2274-2286.
- Xiang H., L. H. Lee, E. P. Chew, D. J. Morrice, C. H. Chen. 2012. Efficient Computing Budget Allocation for a Single Design by Using Regression with Sequential Sampling Constraint. In *Proceedings of the 2012 Winter Simulation Conference*, 156-167.
- Butler, J. C., J. R. W. Merrick, and D. J. Morrice. 2011. Assessing Oil Spill Risk in Port Tanker Operations Using a Multiattribute Utility Approach to Ranking and Selection. In *Proceedings of the 2011 Winter Simulation Conference*, 1696-1707.
- Morrice, D. J., M. W. Brantley, and C-H. Chen. 2009. A Transient Means Ranking and Selection Procedure with Sequential Sampling Constraints. In *Proceedings of the 2009 Winter Simulation Conference*, 590-600.
- Morrice, D. J., M. W. Brantley, and C-H. Chen. 2008. An Efficient Ranking and Selection Procedure For a Linear Transient Mean Performance Measure. In *Proceedings of the 2008 Winter Simulation Conference*, 290-296.
- Heath, S. K. and D. J. Morrice. 2007. A Comparison of Scheduling Approaches for a Make-To-Order Electronics Manufacturer. In *Proceedings of the 2007 Winter Simulation Conference*, 1953-1960.
- Ingalls, R.G., D. J. Morrice, and A. B. Whinston. 2007. Alternative Thread Scoring Methods in Qualitative Event Graphs. In *Proceedings of the 2007 Winter Simulation Conference*, 667-675.
- Morrice, D. J. and J. C. Butler. 2006. Ranking And Selection With Multiple “Targets”. 2006. In *Proceedings of the 2006 Winter Simulation Conference*, 222-230.
- Morrice, D. J., R. A. Valdez, J. P. Chida, Jr., and M. Eido. 2005. Discrete Event Simulation in Supply Chain Planning and Inventory Control At Freescale Semiconductor, Inc. In

- Proceedings of the 2005 Winter Simulation Conference*, 1718-1724.
- Morrice, D. J., E. G. Anderson, and S. Bharadwaj. 2004. A Simulation Study to Assess the Efficacy of Linear Control Theory Models for the Coordination of a Two-Stage Customized Service Supply Chain. In *Proceedings of the 2004 Winter Simulation Conference*, 1128-1135.
- Anderson, E. G. and D. J. Morrice. 2002. Capacity and Backlog Management in Queuing-Based Supply Chains. In *Proceedings of the 2002 Winter Simulation Conference*, 1302-1305.
- Gavirneni, S., P. W. Mullarkey, D. J. Morrice. 2000. Dynamic Output Analysis for Simulations of Manufacturing Environments. In *Proceedings of the 2000 Winter Simulation Conference*, 1290-1296.
- Ingalls, R.G. and D. J. Morrice. 2000. Qualitative Simulation Modeling and Analysis of PERT. In *Proceedings of the 2000 Winter Simulation Conference*, 362-370.
- Ritchie-Dunham, J., E. G. Anderson, D. J. Morrice, J. Scott. 2000. A Strategic Supply Chain Simulation Model. In *Proceedings of the 2000 Winter Simulation Conference*, 1260-1264.
- Anderson, E. G. and D. J. Morrice. 1999. A Simulation Model To Study The Dynamics In a Service-Oriented Supply Chain. In *Proceedings of the 1999 Winter Simulation Conference*, 742-748.
- Morrice, D. J., J. Butler, P. W. Mullarkey, and S. Gavirneni. 1999. Sensitivity Analysis in Ranking And Selection For Multiple Performance Measures. In *Proceedings of the 1999 Winter Simulation Conference*, 618-624.
- Morrice, D. J., J. Butler, and P. W. Mullarkey. 1998. An Approach to Ranking and Selection For Multiple Performance Measures. In *Proceedings of the 1998 Winter Simulation Conference*, 719-725.
- Morrice, D. J., P. W. Mullarkey, A. S. Kenyon, H. Schwetman, and J. F. Zhou. 1997. Simulation of a Signal Quality Survey. In *Proceedings of the 1997 Winter Simulation Conference*, 1265-1272.
- Ingalls, R. G., D. J. Morrice, and A. B. Whinston. 1996. Eliminating Canceling Edges from the Simulation Graph Model Methodology. In *Proceedings of the 1996 Winter Simulation Conference*, 825-832.
- Jacobson, S. H. and D. J. Morrice. 1996. Analyzing the Temporal Association Between Health Disorders and Medical Treatments Using Probability Models and Monte Carlo Simulation. In *Proceedings of the 1996 Winter Simulation Conference*, 1176-1182.
- Schruben, L. W., D. Goldsman, and D. J. Morrice. 1996. Using Null Effects Estimators in the Analysis of Simulation Output. In *Proceedings of the 1996 Winter Simulation Conference*, 367-371.
- Morrice, D. J. and S. H. Jacobson. Amplitude Selection in Transient Sensitivity Analysis. In *Proceedings of the 1995 Winter Simulation Conference*, 330-335.
- Ingalls, R. G., D. J. Morrice, and A. B. Whinston. 1994. Interval Time Clock Implementation for Qualitative Event Graphs. In *Proceedings of the 1994 Winter Simulation Conference*, 574-580.
- Jacobson, S. H., D. J. Morrice, D. G. Withers, E. Yücesan, and W. D. Kelton. 1994. Teaching Simulation: A Panel Discussion. In *Proceedings of the 1994 Winter Simulation Conference*, 1378-1381.

- Ingalls, R. G., D. J. Morrice, and A. B. Whinston. 1994. Simulation with Interval Time Specification. In *Proceedings of the IEEE SMC Conference*.
- Ingalls, R. G., D. J. Morrice, and A. B. Whinston. 1994. Qualitative Discrete Event Simulation Using Event Graphs. In *Proceedings of the 1994 European Simulation Multiconference*, 1057-1059.
- Morrice, D. J. and A. Gupta. 1994. Transient Sensitivity Analysis in Computer Simulation. (Nominated for Best Paper Award). In *Proceedings of the 1994 European Simulation Multiconference*, 858-862.
- Dalle Molle, J. W. and D. J. Morrice. 1993. An Information Theoretic Approach to Computer Simulation Sensitivity Analysis. In *Proceedings of the 1993 Winter Simulation Conference*, 402-407.
- Dalle Molle, J. W., M. J. Hinich, and D. J. Morrice. 1992. Higher-Order Cumulant Spectral-Based Statistical Tests of Pseudo Random Variate Generators. In *Proceedings of the 1992 Winter Simulation Conference*, 618-625.
- Dalle Molle, J. W., M. J. Hinich, and D. J. Morrice. 1992. Estimating Sample Statistics and Their Sampling Cumulants in Simulation Output Analysis. In *Proceedings of the 1992 European Simulation Multiconference*, 109-111.
- Morrice, D. J. 1991. The Effects of Batching on the Power of the Test for Frequency Domain Methodology. In *Proceedings of the 1991 Winter Simulation Conference*, 1018-1022.
- Morrice, D. J., L. W. Schruben, and S. H. Jacobson. 1990. Initial Transient Effects in the Frequency Domain. In *Proceedings of the 1990 Winter Simulation Conference*, 357-359.
- Morrice, D. J. and L. W. Schruben. 1989. Simulation Sensitivity Analysis Using Frequency Domain Experiments. In *Proceedings of the 1989 Winter Simulation Conference*, 367-373.
- Jacobson, S. H., D. J. Morrice, and L. W. Schruben. 1988. The Global Simulation Clock as the Frequency Domain Experiment Index. In *Proceedings of the 1988 Winter Simulation Conference*, 558-563.

Technical Reports and Working Papers:

- Guo, J., J. F. Bard, D. J. Morrice, C. R. Jaen and R. Poursani. Offering Transportation Services to Economically Disadvantaged Patients at a Family Health Center: A Case Study (submitted to *Health Systems*).
- Huang, J., D. J. Morrice, and J. F. Coordinated Scheduling for Heterogeneous Patients in a Multi-Station Network: The Introduction of Virtual Medicine Patients (Date last revised: 08-04-20).
- Cronin, P., D. J. Morrice, L. Leykum, J. F. Bard. Empirical Analysis of the Impact of Collaborative Care in Internal Medicine: Applications to Length of Stay, Readmissions, and Discharge Planning (Date last revised: 05-03-20).
- Cronin, P., Y. Chen, D. J. Morrice, J. F. Bard, and L. Leykum. A Simulation Model for Geographical Localization of Hospital Beds with On-call Rotations. (Date last revised: 05-03-20).

Books and Book Chapters:

- Proceedings of the 2003 Winter Simulation Conference*. S. Chick, P. Sanchez, D. Morrice, and D. Ferrin, eds.
- Fitzsimmons, J., D. Morrice, E. Powell, W. Rice, and D. Tirupati. 2000. *Service Chain Management. Defying the Limits: Reaching New Heights in Customer Relationship Management*. Montgomery Research Institute, San Francisco, CA.
- Proceedings of the 1996 Winter Simulation Conference*. J. M. Charnes, D. J. Morrice, D. T. Brunner, and J. J. Swain, eds.

Case Studies:

- Sanders, J. and D. J. Morrice. 2000. National Tile + Stone Case Study. The University of Texas at Austin. (A case study on the design and optimization of a distribution network in an environment of acquisitions and demand growth.)
- Morrice, D. J. 2000. Ace Construction Case Study. The University of Texas at Austin. (A case study on forecasting in the supply chain).

Patent:

- Kenyon, A. S. and D. J. Morrice. Method and System for Optimizing Logistical Operations in Land Seismic Surveys. United States Patent Number 6,182,014, January 30, 2001.
- Mullarkey, P. W., P. H. Canter, R. E. Brooks, D. J. Morrice, A. S. Kenyon, P. T. Highnam. Method and System of Simulating and Optimizing Land Seismic Operations. United States Patent Number 6,028,819, February 22, 2000.

Grants and Awards:

- Texas Health Catalyst Research Grant “Complex Clinical Scheduling for Patient-Centered Multidisciplinary Team Clinic Approach to Joint Pain,” January – December 2017, Principle Investigators: Jonathan F. Bard, Karl Koenig, and Douglas Morrice, Amount: \$40,000.
- McCombs Research Grant “Design and Analysis of Integrated Practice Units at the Dell Medical School,” Principle Investigators: Douglas Morrice, Jonathan F. Bard, and Karl Koenig, Amount: \$15,000.
- Construction Industry Institute Grant “CII RT-344 Improved Integration of the Supply Chain in Material Planning,” June 2016 – August 2018, Principle Investigators: William O’Brien, Douglas Morrice, Amount: \$284,620.
- Red McCombs School of Business, Dean’s Research Leave, Fall 2015.
- The University of Texas Systems Engineering Grant “Implementing a Patient-Centered Surgical Home – San Antonio School of Medicine,” June 2012 – June 2015, Principle Investigators: Douglas Morrice, Luci Leykum (UTHSC, SA), Jonathan Bard, Amount: \$280,000.
- The University of Texas Systems Engineering Grant “Optimize HouseStaff Schedule and Patient Access in Primary Care Teaching Hospital, June 2012 – June 2015, Principle Investigators: Jonathan Bard, Luci Leykum (UTHSC, SA), Douglas Morrice, Amount: \$280,000.
- Undergraduate Business Council and Undergraduate Programs Office Faculty Honor Roll, Red McCombs School of Business, The University of Texas at Austin, Spring 2012, Fall 2012, Spring 2013.

Mitchell Family Foundation and the Energy Foundation Research Grant, 2010.
Bobbie and Coulter R. Sublett Centennial Professorship in Business, Red McCombs School of Business, The University of Texas at Austin, 2009 – present.
The University of Texas Supply Chain Management Center of Excellence Sponsorships, 2007 – 2016.
Red McCombs School of Business, Dean's Fellowship, Fall 2005.
College of Business Administration Foundation Advisory Council Centennial Fellowship #3, Red McCombs School of Business, The University of Texas at Austin 2004 - 2009.
The University of Texas Supply Chain Management Consortium Sponsorships, 2003-2007.
SAP America University Alliance Program Grant, 2000.
Faculty Research Assignment Grant, The University of Texas at Austin, Awarded: Fall 1999.
Center for Customer Insight Research Grant, The University of Texas at Austin, Fall 1999.
Academic Center for Instructional Computing, The University of Texas at Austin, Summer 1999, Spring 2000.
Arena Simulation Software Grant from Systems Modeling, Spring 1999.
Research Grant from Schlumberger Austin Product Center, 1996, Fall 1997, Spring 1998, Summer 1998.
Research Grant from National Instruments, Fall 1997.
Faculty Research Committee Summer Research Grant, Graduate School of Business, The University of Texas at Austin, Summers of 1991 to 1995, 1997.
Graduate School of Business Summer Salary Support, The University of Texas at Austin, Summers of 1991 to 1994.
SLAMSYSTEM University Grant from Pritsker Corporation, Spring 1991.
Tuition Fellowship and Assistantship, Cornell University, 1985 to 1990.
National Sciences and Engineering Research Council of Canada Graduate Scholarship, 1987 to 1989.
University Senate Medal, Carleton University, 1985.
Dean's Honor List, Carleton University, 1984, 1985.

Consulting Activities:

Scientific Advisor Board Member, Biopop, Inc. January 2001-2002.
Supply Chain Analysis, Hick, Thomas, & Lilienstern, LLP. January 2001.
Manufacturing Simulation Analysis, Maxager Technology, Inc., May 2000, May 2001.
Retail Forecasting Analysis, HEB Corporation, July 1999.
Supply Chain Management Short Course, PriceWaterhouseCoopers, November 1997, February 1998, October 1998.
Manufacturing Line Simulation Project, National Instruments, Fall 1997.
Land Operations Modeling Projects, Schlumberger Austin Product Center, January 1996 to June 1999.
Marine Operations Modeling Project, Schlumberger Austin Product Center, 1996.
Feasibility Study for Implementing a Cost Resource Planning Model in Spreadsheet and Database Software, SEMATECH, Summer 1993.
A Quality Management Study of Accounts Payable Invoice Analysis, Texas Instruments, Inc., Fall, Spring 1993.
Transportation Simulation Study, Texas Youth Commission, Fall, Spring 1992.

Temporal Relationship Simulation Study of Medical Treatments and Disorders, Texas Department of Health, Spring 1991.

Presentations/Chaired Sessions:

Invited Speaker, INFORMS Conference, October 2019.
Invited Speaker, INFORMS Healthcare Conference, July 2019.
Seminar Speaker, Cornell University, SC Johnson Graduate School of Management, July 2019.
Invited Session Chair, POMS Conference, May 2019.
Seminar Speaker, Arizona State University, W. P. Carey School of Business, April 2019.
Speaker, Winter Simulation Conference, December 2018.
Presentation, INFORMS Conference, November 2018.
Seminar Speaker, Purdue University Krannert School of Management, October 2018.
Invited Session Chair, POMS Conference, May 2018.
Invited Speaker, POMS Conference, May 2018.
Invited Panel Moderator, McCombs Blockchain Conference, April 2018.
Invited Speaker, Winter Simulation Conference, December 2017.
Invited Speaker, INFORMS Conference, October 2017.
Invited Speaker, POMS Conference, May 2017.
Invited Speaker, Dell Medical School Research Seminar Series, The University of Texas at Austin, March 2017.
Invited Speaker, INFORMS Conference, November 2016.
Guest Seminar Speaker, University of Nebraska Supply Change Management and Analytics Department, Lincoln, NE, October 2016.
Invited Conference Speaker, National University of Singapore Department of Industrial and Systems Engineering, Singapore, July 2016.
Invited Speaker, IIE Conference, May 2016.
Invited Speaker, POMS Conference, May 2016.
Invited Speaker, The University of Texas at Austin Supply Chain Center of Excellence, April 2016.
Invited Panelist, McCombs Healthcare Research Seminar, The University of Texas at Austin, November 2015.
Invited Speaker, INFORMS Conference, November 2015.
Invited Speaker, Special Issue of *Production and Operations Management* and Conference at Indiana University, October 2015.
Guest Seminar Speaker, University of Michigan Industrial and Operations Engineering Department, September 2015.
Guest Seminar Speaker, Cornell University, Johnson School of Management, September 2015.
Invited Chair and Speaker, INFORMS Healthcare Conference, July 2015
Invited Speaker, IIE Conference, May 2015
Invited Speaker, POMS Conference, May 2015
Invited Panelist, McCombs Healthcare Research Symposium, The University of Texas at Austin, April 2015.
Guest Seminar Speaker, Vanderbilt University, Owen School of Management, March 2015.
Poster Session Speaker, Winter Simulation Conference, December 2014.
Speaker, INFORMS Conference, November 2014.

Guest Seminar Speaker, The University of Pittsburgh, Katz School of Business, September 2014.

Invited Participant, Healthcare Systems Optimization Workshop, Northwestern University, September 2014.

Speaker, POMS Conference, April 2014.

Guest Seminar Speaker, University of Houston, Department of Industrial Engineering, March 2014

Invited Speaker, Winter Simulation Conference, December 2013.

Invited Guest Speaker, McCombs Healthcare Research Seminar, The University of Texas at Austin, November 2013.

Invited Guest Speaker, The University of Texas Systems Engineering Conference, November 2013.

Invited Speaker, INFORMS Conference, October 2013.

Speaker, INFORMS Healthcare Conference, June 2013.

Speaker, POMS Conference, April 2013.

Invited Guest Speaker, McCombs Healthcare Research Symposium, The University of Texas at Austin, April 2013.

Invited Speaker, Winter Simulation Conference, December 2012.

Invited Chair and Speaker, INFORMS Conference, October 2012.

Invited Guest Speaker, The University of Texas Systems Engineering Conference, October 2012.

Invited Guest Speaker and Participant, National Science Foundation Workshop on Simulation Methodology, July 2012.

Invited Panelist, Production Operations Management Society Conference, April 2012.

Invited Guest Speaker, Penn State University, OM Research Seminar, March 2012.

Invited Speaker, Winter Simulation Conference, December 2011.

Invited Chair and Speaker, INFORMS Conference, November 2011.

Speaker, Production and Operations Management Society Conference, April 2011.

Invited Participant, National Science Foundation Workshops on Simulation Optimization, May 2010, December 2010.

Invited Chair and Speaker, INFORMS Conference, November 2010.

Invited Guest Speaker, The University of Alabama, OM Research Seminar, April 2010.

Invited Session Chair and Speaker, Winter Simulation Conference, December 2009.

Invited Guest Speaker, The University of Texas at Dallas, OM Research Seminar, October 2009.

Invited Keynote Speaker, INFORMS Simulation Society Workshop, June 2009.

Invited Speaker, Production and Operations Management Society Conference, April 2009.

Invited Session Chair and Speaker, Winter Simulation Conference, December 2008.

Invited Speaker, INFORMS Conference, October 2008.

Invited Speaker, Production and Operations Management Society Conference, May 2008.

Invited Session Chair and Speaker, Winter Simulation Conference, December 2007.

Invited Session Chair and Speaker, INFORMS Conference, November 2007.

Invited Speaker, Production and Operations Management Society Conference, May 2007.

Speaker, Winter Simulation Conference, December 2006.

Invited Panelist, Decision Sciences Institute Conference, November 2006.

Invited Session Chair and Speaker, INFORMS Conference, November 2006.

Speaker, Production and Operations Management Society Conference, April 2006.
Invited Speaker, Winter Simulation Conference, December 2005.
Invited Speaker, INFORMS Conference, November 2005.
Invited Speaker, Production and Operations Management Society Conference, April 2005.
Invited Speaker, Central Texas Roundtable, Council of Supply Chain Management Professionals, January 2005.
Speaker, Winter Simulation Conference, December 2004.
Invited Speaker, INFORMS Conference, October 2004.
Invited Speaker, POMS Conference, April 2004.
Invited Speaker, Operations Management Seminar, Carnegie-Melon University, March 2004.
Speaker, NSF Workshop on Supply Chain Management, University of Florida, Gainesville, February 2004.
Invited Speaker, POMS Conference, April 2003.
Ph.D. Colloquium Keynote Speaker, POMS Conference, April 2003.
Invited Speaker, Department of Industrial Engineering Seminar Series, Texas A&M University, March 2003.
Ph.D. Colloquium Keynote Speaker, Winter Simulation Conference, December 2002.
Speaker, Winter Simulation Conference, December 2002.
Invited Speaker, INFORMS Conference, November 2002.
Speaker, Manufacturing and Service Operations Management Conference, Samuel Curtis Johnson Graduate School of Management, Cornell University, Ithaca, New York, June 2002.
Invited Speaker, Operations Management Seminar, Sloan Business School, Massachusetts Institute of Technology, Boston, Massachusetts, May 2002.
Invited Speaker, Operations Management Seminar, Boston University, Boston, Massachusetts, May 2002.
Session Chair, Production and Operations Management Conference, April 2002.
Invited Speaker, INFORMS Conference, November 2001.
Invited Speaker, INFORMS International Conference, June 2001.
Invited Speaker, Systems Engineering Seminar, United States Military Academy at West Point, New York, May 2001.
Invited Speaker, Austin Local Chapter Conference, Schlumberger Austin Product Center, February 2001.
Speaker, SAP America Research Conference, February 2001.
Invited Speaker, Winter Simulation Conference, December 2000.
Invited Speaker, INFORMS Conference, November 2000.
Invited Speaker, Operations Management Seminar, Queens University, Kingston, Ontario, Canada, June 2000.
Invited Speaker, INFORMS Conference, May, 2000.
Invited Speaker, Association for Manufacturing Excellence Champion's Club Meeting, April 2000.
Invited Speaker, Production and Operations Management Conference, April 2000.
Session Chair, Winter Simulation Conference, December, 1999.
Invited Speaker, Winter Simulation Conference, December, 1999.
Invited Speaker, Workshop on Collaboration and Standardization in Supply Chain

Management, The University of California at Berkeley, October 1999.
Invited Speaker, Center for Customer Insight Workshop, The University of Texas at Austin, July, 1999.
Invited Speaker, INFORMS Conference, May, 1999.
Invited Speaker, ORMS Seminar Series, The University of Texas at Austin, April, 1999.
Invited Speaker, Management Science Seminar, The University of Western Ontario, London, Ontario, Canada, March 1999.
Invited Speaker, Winter Simulation Conference, December, 1998.
Speaker, Winter Simulation Conference, December, 1997.
Invited Speaker, Decision and Risk Analysis Symposium, Schlumberger Austin Product Center/The University of Texas at Austin, November, 1997.
Invited Speaker, INFORMS Conference, October, 1997.
Veritas Forum, The University of Texas at Austin, February, 1997.
Invited Speaker, Winter Simulation Conference, December, 1996.
Advanced Tutorial Chair, Winter Simulation Conference, December, 1996.
Invited Speaker, Schlumberger-Doll Research Center, October, 1996.
Invited Speaker, SABRE Decision Technologies, August, 1996.
Speaker, INFORMS Conference, May, 1996.
Invited Session Chair, Winter Simulation Conference, December, 1995.
Invited Speaker, Schlumberger Austin Product Center, October, 1995.
Invited Session Chair, INFORMS Conference, April, 1995.
Invited Session Chair and Advanced Tutorial Chair, Winter Simulation Conference, December, 1994.
Invited Speaker, SEMATECH, Austin, Texas, July, 1994.
Invited Chair, Simulation in Manufacturing and Logistics, European Simulation Multiconference, June, 1994.
Invited Speaker, European Simulation Multiconference, June, 1994.
Invited Speaker, Management Science/Operations Research Seminar Series, The University of Texas at Austin, March, 1994.
Invited Speaker, Winter Simulation Conference, December, 1993.
Invited Chair, ORSA/TIMS Conference, Phoenix, Arizona, November, 1993.
Invited Speaker, ORSA/TIMS Conference, Chicago, Illinois, May, 1993.
Invited Speaker, ORSA/TIMS Conference, San Francisco, California, November, 1992.
Invited Speaker, Summer Institute for Middle School Teachers in Austin Independent School District, The University of Texas at Austin, Austin, Texas, June, 1992.
Invited Speaker, Applied Research Laboratories, The University of Texas at Austin, Austin, Texas, May, 1992.
Invited Chair, *ORSA/TIMS Conference*, Orlando, Florida, April, 1992.
Invited Speaker, Operations Management Seminar Series, Fall, 1991.
Invited Lecturer, Honors Colloquium, The University of Texas at Austin, Austin, Texas, July, 1991 to 1995.
Invited Lecturer, ITESM Course: Management Science and Computer Models, MSIS Department, The University of Texas at Austin, Austin, Texas, July, 1991, August, 1992.
Invited Speaker, *Conference of Texas Statisticians*, Dallas, Texas, April, 1991.

Invited Speaker, Center of Statistical Sciences, The University of Texas at Austin, Austin, Texas, October, 1990.

Invited Speaker, *ORSA/TIMS Conference*, Las Vegas, Nevada, May, 1990.

Invited Speaker, *CORS/ORSA/TIMS Conference*, Vancouver, Canada, May, 1989.

Invited Speaker, Ph.D. Colloquium, *Winter Simulation Conference*, San Diego, California, December, 1988, 1989.

Editorial Service:

Editor-At-Large, Simulation Area for *Interfaces*, 2005-present.

Senior Editor in Industry Studies and Public Policy for *Journal of Production and Operations Management*, 2017 – present.

Senior Editor in Supply Chain Management for *Journal of Production and Operations Management*, 2003 – present.

Area Editor, *IIE Transactions on Healthcare Systems Engineering*, 2014-present.

Pierskalla Competition (INFORMS) Best Paper Award Judge (First Round), July-August 2019.

Healthcare Applications Track Co-chair, *Winter Simulation Conference*, 2016.

Member of Simulation Optimization Track Program Committee, *Winter Simulation Conference*, 2014.

Member of the Healthcare Applications Track Program Committee, *Winter Simulation Conference*, 2013.

Area Editor in Simulation Output Analysis for *ACM Transactions on Modeling and Computer Simulation*, 2002 – 2013.

Program Chair, *Proceedings of the Winter Simulation Conference*, 2003.

Contributing Editor for *International Abstracts in Operations Research* (responsible for abstracting *IIE Transactions*), 1998 – 2003.

Member of Editorial Board for *Journal for Production and Operations Management*. 2000-2002.

Associate Editor for *ACM Transactions on Modeling and Computer Simulation*. 2000 – 2001.

Contributed Papers Chair, *INFORMS Conference*, Fall, 1997.

Associate Proceedings Editor, *Proceedings of the Winter Simulation Conference*, 1996.

Other Professional Service:

Member and Administrator, Construction Industry Institute, Supply Chain Management Community of Practice, 2016-2018.

Member, The University of Texas Systems Engineering Committee, 2011-2015.

Past-President, *Winter Simulation Conference Board of Directors*, 2011-2012.

President, *Winter Simulation Conference Board of Directors*, 2010.

Vice President, *Winter Simulation Conference Board of Directors*, 2008 – 2009.

Secretary, *Winter Simulation Conference Board of Directors*, 2007

Member, *Winter Simulation Conference Board of Directors*, *INFORMS Simulation Society Representative*, 2004 to present.

Advanced Tutorials Chair, *Winter Simulation Conference*, December, 2005.

Session Cluster Organizer, *Production and Operations Management Conference*, April 2004.

Introductory Tutorials Chair, *Winter Simulation Conference*, December, 2002.
Round Table Organizer, Supply Chain Management Consortium, Red McCombs School of Business, University of Texas at Austin, November 2002.
Judge in National E-Marketing Competition (Hosted by Vanderbilt University), March, 2000.
Contributed Papers Chair, *INFORMS Conference*, Fall, 1997.
Journal of Business Logistics Founders Award Committee Member, Summer, 1996.
Poster Session Track Co-chair, *Winter Simulation Conference*, December, 1995.
INFORMS College on Simulation Secretary (Elected for two year term 1994 to 1996).
Reviewer for:
Addison-Wesley Publishing Company
Annals of Operations Research
ACM Transactions on Modeling and Computer Simulation
Course Technologies, Inc.
Decision Support Systems
European Journal of Operational Research
IIE Transactions
INFORMS Journal on Computing
Interfaces
International Journal of Simulation and Process Modeling
Irwin/McGraw-Hill
ICIS Conference
IFAC Automatica
Journal of Operations Management
Journal of Simulation
Management Science
Naval Research Logistics Quarterly
Omega, an International Journal of Management Science
Operations Research
Operation Research Letters
Prentice-Hall, Inc.
Proceedings of the Winter Simulation Conference
Productions and Operations Management
Queueing Systems: Theory and Applications
Simulation: Transactions of the Society for Modeling and Simulation International
The Nicholson Prize Competition
Transportation Research Record: Series B
Transactions of the Society for Modeling and Simulation International
The American Statistical Association Local Chapter President, Austin, Texas, 1991-1992.

Professional Memberships:

Institute for Operations Research and Management Science (INFORMS) Member.
INFORMS Simulation Society Member.
INFORMS Manufacturing and Service Operations Management Society Member.
INFORMS Health Applications Society Member.
Production and Operations Management Society (POMS) Member.

POMS Supply Chain Management College Member.
POMS Healthcare Operations Management College Member.

University Service:

University Committee on Committees Member, The University of Texas at Austin, 2013-present.

OM Area Ph.D. Program Advisor, IROM Department, The University of Texas at Austin, 2018-2019.

Chief Teaching Mentor, OM Area, IROM Department, The University of Texas at Austin, 2016-2018.

University Budget Committee, The University of Texas at Austin, 2015-2017.

McCombs Healthcare Management Initiative Committee Member, The University of Texas at Austin, 2013-2019.

Gender Equity Committee Member, McCombs School of Business, The University of Texas at Austin, 2013-2015.

University Faculty Council Member, The University of Texas at Austin, 2013-2015.

Undergraduate Programs Committee Member, The Red McCombs School of Business, The University of Texas at Austin, 2011-2013.

Chair, IROM Department, The University of Texas at Austin, 2007-2011.

Supply Chain Management Center of Excellence Director, The University of Texas at Austin, 2007-2016.

Dean's Executive Committee Member, The Red McCombs School of Business, The University of Texas at Austin, 2007-2011.

Dean's Operations Committee, The Red McCombs School of Business, The University of Texas at Austin, 2007-2011.

Dean's Strategic Planning Committee Member, McCombs School of Business, 2008-2009.

Executive Committee, IROM Department, The University of Texas at Austin, 2005-2007, 2012 – 2014, 2016 – 2018.

Supply Chain Management Consortium Director, The University of Texas at Austin, 2002-2007.

Operations Management Area Coordinator, IROM Department, The University of Texas at Austin, Fall 2005.

Executive Committee, Management Department, The University of Texas at Austin, 2003-2005.

Graduate Advisor, MSIS Department, The University of Texas at Austin, 2002-2003.

Extended Budget Council, MSIS Department, The University of Texas at Austin, 1999-2001, 2002-2003.

Center for Customer Insight (CCI) Supply Chain Track Coordinator, 1997-2001.

Management Science Coordinator, MSIS Department, The University of Texas at Austin, 1997-2001.

Faculty Advisor, EDS Case Challenge, Fall 1998.

Director of The Texas Institute for Latin American Research 1998 program in Information Technology and Decision Support Systems, July 1998.

Chair of Ph.D. Consolidation Committee for the MSIS Department, January/February 1998.

Business School Product Lines Committee Member, The University of Texas at Austin, Spring, 1997.

BA 101 Faculty Ambassador, MSIS Department, The University of Texas at Austin, Fall, 1995.

Extended Budget Council, MSIS Department, The University of Texas at Austin, 1994-1995.

MS Coordinator of MS/OR Seminar Series, MSIS Department, The University of Texas at Austin, 1994-1995.

Undergraduate Honors Program Committee, College of Business Administration, The University of Texas at Austin, 1991-1992, 1993-1996, 2003-2005.

Member of Several Doctoral and Masters Committees, The University of Texas at Austin, 1990 to present.

Member of Nine Faculty Promotion Review and Post-Tenure Review Committees (Department Level), The University of Texas at Austin, 1990 to present.

Other Service:

Invocation Prayer, College of Business Administration Graduation Ceremony, The University of Texas at Austin, May, 1994.

Faculty Mentor, Jestor Residence, The University of Texas at Austin, 1993-1994.

Faculty Mentor, Honors Colloquium, The University of Texas at Austin, Summer, 1993.