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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:

- Professor: Management Science and Information Systems Department,
The University of Texas at Austin, 2002 to present.
- Associate Professor: Management Science and Information Systems Department,
The University of Texas at Austin, 1996 to present.
- 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.

Consulting Activities:

- 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.

Grants and Awards:

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.

Journal Publications:

Morrice, D. J., A. Kenyon, C. J. Beckett. Optimizing Operations in 3D Land Seismic Surveys. *Geophysics* (Forthcoming).

Gavirneni, S., C. Hooykaas, D. J. Morrice. Simulation of Back Deck Operations on a Marine Seismic Vessel. *Interfaces* (Forthcoming).

Butler, J., D. J. Morrice, and P. W. Mullarkey. A Multiple Attribute Utility Theory Approach to Ranking and Selection for Systems with Multiple Performance Measures. *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? *Journal of 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:

- 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:

Anderson, E. G. and D. J. Morrice. Capacity and Backlog Management in Service-Oriented Supply Chains. (Under review at *Management Science*).

Ingalls, R. G., D. J. Morrice, A. B. Whinston, and E. Yücesan. Edge Execution Conditions: A Formal Way of Characterizing Event Cancellation in Simulation Graphs (Under review at *INFORMS Journal on Computing*).

Fitzsimmons, J. A., E. G. Anderson, D. J. Morrice, and G. E. Powell. Service Chain Management (submitted for publication).

Gavirneni, S., D. J. Morrice, and P. Mullarkey. Simulation Helps Maxager Shorten its Sales Cycle. Working paper.

Anderson, E. G. and D. J. Morrice. Data Corruption in Service Supply Chains. Working paper.

Mullarkey, P. W. and D. J. Morrice. A Simulator for 3D Land Seismic Operations. Working paper.

Books and Book Chapters:

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.

Presentations/Chaired Sessions:

Invited Speaker, *INFORMS International Conference*, June 2001.

Speaker, SAP America Research Conference, February 2001.

Invited Speaker, *Winter Simulation Conference*, December 2000.

Invited Speaker, *INFORMS Conference*, November 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, *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.

Teaching Experience:

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

MSC 371H (Honors Management Science), Fall, 1997-2000.

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.

Editorial Service:

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

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

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

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

Associate Proceedings Editor, *Winter Simulation Conference*, December, 1996.

Other Professional Service:

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

INFORMS Journal on Computing

Interfaces

Irwin/McGraw-Hill

ICIS Conference

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

The Nicholson Prize Competition

Transportation Research Record: Series B

The American Statistical Association Local Chapter President, Austin, Texas, 1991-1992.

Professional Memberships:

Institute for Operations Research and Management Science (INFORMS) Member.

INFORMS College on Simulation Member.

Production and Operations Management Society Member.

Council of Logistics Management Member.

Society of Exploration Geophysicists Associate Member.

University Service:

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

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.

Member of 30 Doctoral and Masters Committees, The University of Texas at Austin, 1990 to present.

Member of 5 Faculty Promotion 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 as Austin, 1993-1994.

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