

Charles E. Wells

Curriculum Vitae

Personal Information

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School of Business Administration
University of Dayton
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Education

AB Harvard University, Mathematics, (1976), *cum laude*
MBA Miami University, Business Analysis, (1977)
Ph.D. University of Cincinnati, Quantitative Analysis, (1982)
Dissertation: Stochastic Analysis of Systems with Missions of Random Duration

Employment

1984—present	University of Dayton
1989—present	Professor, Department of MIS, OM, and Decision Sciences
2004—2012	Chair, Department of MIS, OM, and Decision Sciences
2001—2003	Associate Dean for Academic Affairs, School of Business Administration
1998—2001	Associate Dean and Director, MBA Program
1984—1989	Associate Professor, Department of Decision Sciences
1980—1984	Assistant Professor, Department of Decision Sciences, Miami University
1979—1980	Management Advisory Staff, Haskins and Sells

Academic Honors

School of Business Administration Scholarship Award, University of Dayton, 1994
Alumni Award in Teaching, University of Dayton, 1993
Hobart Scholar, University of Dayton, 1986

Research Grants and Contracts

Dayton Power & Light Estimation System, 1993
 Research Grant (with R. Agarwal, P. De, and J. Ghosh), U.S. Air Force, 1992
 Ohio Board of Regents Research Challenge Grant (with J.B. Ghosh and P. De), 1988-1989
 Research Grant, Human Resource Laboratory, Brooks AFB, Texas, 1988
 Research Grant, SFRP, WPAFB, 1987

Editorial Boards

Decision Sciences, 1996
Computers & Operations Research, 1996 - 2001

Refereed Journal Articles and Books

Kanet, J.J., and C.E. Wells, "An examination of job interchange relationships and induction-based proofs in single machine scheduling, *Annals of Operations Research*, 2016, forthcoming.

Wells, C.E., "Bounds on uptime distribution based on aging for systems with finite lifetimes," *Annals of Operations Research*, 2015, 235, 757-769.

Wells, C.E., "Reliability analysis of a single warm-standby system subject to repairable and nonrepairable failures," *European Journal of Operational Research*, 2014, 235, 180-186.

Wells, R.M., and C.E. Wells, "Systems-designed Graduate Program Review," *Research in Higher Education Journal*, March 2012, 16, 1-23.

Wells, R.M., and C.E. Wells, "Academic Program Portfolio Model for Universities: Guiding Strategic Decisions and Resource Allocations, *Research in Higher Education Journal*, 2011, 11, 1-19.

Wells, C.E., and S.C. Albright, *Practical Management Science: Understanding and Developing Spreadsheet Models—A Student Primer*, Duxbury Press, 1998.

De, P., J. Dunne, J. Ghosh, and C.E. Wells, "Discrete Time-Cost Tradeoff Problem for Project Networks," *Operations Research*, 1997, 45, 302-306.

De, P., J. Ghosh, and C.E. Wells, "On the Minimization of Coefficient of Variation in Single-Machine Scheduling," *International Journal of Production Economics*, 1996, 44, 249-253.

De, P., J. Dunne, J. Ghosh, and C.E. Wells, "The Discrete Time-Cost Tradeoff Problem Revisited," *European Journal of Operational Research*, 1995, 81, 225-238.

De, P., J. Ghosh, and C.E. Wells, "Due-Date Assignment Early/Tardy Scheduling on Identical Parallel Machines," *Naval Research Logistics*, 1994, 41, 17-32.

De, P., J. Ghosh, and C.E. Wells, "Solving a Generalized Model for CON Due-Date Assignment and Sequencing," *International Journal of Production Economics*, 1994, 34, 179-185.

- De, P., J. Ghosh, and C.E. Wells, "Optimal Selection and Sequencing in a Random Processing Environment," *European Journal of Operational Research*, 1993, 70, 425-431.
- De, P., J. Ghosh, and C.E. Wells, "Delivery Time Quotation and Order Processing with Forbidden Early Shipments," *Computers & Operations Research*, 1993, 20, 381-390.
- De, P., J. Ghosh, and C.E. Wells, "On the General Solution for a Class of Early/Tardy Problems," *Computers & Operations Research*, 1993, 20, 141-149.
- De, P., J. Ghosh, and C.E. Wells, "Expectation-Variance Analysis of Job Sequences under Processing Time Uncertainty," *International Journal of Production Economics*, 1992, 28, 289-297.
- De, P., J. Ghosh, and C.E. Wells, "On the Minimization of Completion Time Variance with a Bicriteria Extension," *Operations Research*, 1992, 40, 1148-1155.
- De, P., J. Ghosh, and C.E. Wells, "On the Solution of a Stochastic Bottleneck Assignment Problem and its Variations," *Naval Research Logistics*, 1992, 39, 389-397.
- De, P., J. Ghosh, and C. E. Wells, "Optimal Due-Date Assignment and Sequencing," *European Journal of Operational Research*, 1992, 57, 323-331.
- De, P., J. Ghosh, and C.E. Wells, "Heuristic Estimation of the Efficient Frontier for a Bi-Criteria Scheduling Problem," *Decision Sciences*, 1992, 23, 596-609.
- Ghosh, J., and C.E. Wells, "Optimal Retrieval Strategies for Carousel Conveyors," *Mathematical and Computer Modelling*, 1992, 16, 59-70.
- De, P., J. Ghosh, and C.E. Wells, "Some Clarifications on the Bicriteria Scheduling of Unit Execution Time Jobs on a Single Machine," *Computers & Operations Research*, 1991, 18, 717-720.
- De, P., J. Ghosh, and C.E. Wells, "On the Multiple Machine Extension to a Common Due-Date Assignment and Scheduling Problem," *Journal of the Operational Research Society*, 1991, 42, 419-422.
- De, P., J. Ghosh, and C.E. Wells, "Coordinating New Product Development and Delivery," *International Journal of Production Economics*, 1991, 22, 53-58.
- De, P., J. Ghosh, and C.E. Wells, "Scheduling to Minimize Weighted Earliness and Tardiness about a Common Due-Date," *Computers & Operations Research*, 1991, 18, 465-475.
- De, P., J. Ghosh, and C.E. Wells, "On the Minimization of the Weighted Number of Tardy Jobs with Random Processing Times and Deadline," *Computers & Operations Research*, 1991, 18, 457-463.
- De, P., J. Ghosh, and C.E. Wells, "Optimal Delivery Time Quotation and Order Sequencing," *Decision Sciences*, 1991, 22, 379-390.
- Ghosh, J., and C.E. Wells, "Determining the Optimal Allocation of Spares for Systems with Random Lifetimes," *IEEE Transactions on Reliability*, 1990, 39, 309-313.
- De, P., J. Ghosh, and C.E. Wells, "CON Due-Date Determination and Sequencing," *Computers & Operations Research*, 1990, 17, 333-342.
- De, P., J. Ghosh, and C.E. Wells, "Scheduling about a Common Due-Date with Earliness and Tardiness Penalties," *Computers & Operations Research*, 1990, 17, 231-241.

- De, P., J. Ghosh, and C.E. Wells, "A Note on the Minimization of Mean Squared Deviation of Completion Times about a Common Due Date," *Management Science*, 1989, 35, 1143-1147.
- Wells, C.E., and J.R. Evans, "Statistical Procedures for Estimating Branch Flows and Total Network Flow," *Networks*, 1989, 19, 481-491.
- Wells, C.E., "Replacement versus Repair of Failed Components for a System with a Random Lifetime," *IEEE Transactions on Reliability*, 1988, 37, 280-286.
- McClure, R.H., and C.E. Wells, "Decentralized Decision Making Involving Multiple Criteria: A Multiple Knapsack Formulation," *International Journal of Mathematical Education in Science and Technology*, 1988, 19, 867-875.
- Wells, C.E., "Determining the Future Costs of Lifetime Warranties," *IIE Transactions*, 1987, 19, 178-181.
- McClure, R.H., and C.E. Wells, "Incorporating Sales Force Preferences in a Goal Programming Model for the Sales Resource Allocation Problem," *Decision Sciences*, 1987, 18, 677-681.
- McClure, R.H., C.E. Wells, and B.L. Bowerman, "A Model of MBA Student Performance," *Research in Higher Education*, 1987, 25, 182-193.
- Wells, C.E., "Working and Selecting a Retirement Age: An Optimal Control Approach," *International Journal of Mathematical Education in Science and Technology*, 1987, 18, 55-60.
- McClure, R.H., and C.E. Wells, "Modeling Multiple Criteria in the Faculty Assignment Problem," *Socio-Economic Planning Sciences*, 1987, 21, 389-394.
- Wells, C.E., "Reliability Measures for a Regenerative System Viewed Over a Random Horizon," *IEEE Transaction on Reliability*, 1987, 36, 124-128.
- McClure, R.H. and C.E. Wells, "Departmental Planning in Academia by Decision Support," *College and University*, 1986, 61, 81-89.
- Wells, C.E., and J.L. Bryant, "On the Replenishment of Repair Kit Inventories for Systems with Life Distributions of Phase Type," *Management Science*, 1985, 31, 1440-1450.
- Wells, C.E., and J.L. Bryant, "Optimal Design of Standby Redundant Components for a System which has a Mission of Random Duration," *IIE Transactions*, 1985, 17, 302-307.
- Wells, C.E., and J.L. Bryant, "An Adaptive Estimation Procedure Using The Laplace Transformation," *IIE Transactions*, 1985, 17, 242-251.
- Wells, C.E., and J.L. Bryant, "Optimal Preventive Maintenance Policies for Systems with Missions of Random Duration," *IIE Transactions*, 1985, 17, 338-345.
- Wells, C.E., and J.L. Bryant, "Reliability Characteristics of a Markov System with a Mission of Random Duration," *IEEE Transactions on Reliability*, 1985, 34, 393-396.
- McClure, R.H., and C.E. Wells, "On the Approximation Of Utility Functions For Faculty Teaching Assignments," *Socio-Economic Planning Sciences*, 1985, 19, 153-158.

Wells, C.E., "On the Conditional Remaining Life Distribution of a Random Variable whose Life Distribution is of Phase Type," *International Journal of Mathematical Education in Science and Technology*, 1985, 16, 134-137.

Bryant, J.L., and C.E. Wells, "Matrix-Flowgraph Methods with Application to the Analysis of Systems Whose Missions are of Uncertain Duration," *IIE Transactions*, 1984, 16, 271-279.

McClure, R.H., and C.E. Wells, "A Mathematical Programming Model for Faculty Course Assignments," *Decision Sciences*, 1984, 15, 409-420.

Wells, C.E., "On the Use of Integral Transform Methods: A New Perspective," *International Journal of Mathematical Education in Science and Technology*, 1984, 15, 751-755.

Refereed Articles in Conference Proceedings

Agarwal, R., P. De, and C.E. Wells, "Cooperative Distributed Problem Solving: An Investigation in the Domain of Jobshop Scheduling," *Proceedings of the 28th Annual Hawaii International Conference on System Sciences*, 1995, 3, 4-12.

De, P., J. Ghosh, and C.E. Wells, "Single Machine Scheduling under Delivery Commitment: Heuristic Solution and Performance Bound," *Proceedings of the 1991 National Meeting of the Decision Sciences Institute*, 1516.

De, P., J. Ghosh, and C.E. Wells, "Sensitivity of Optimal Schedules under Uncertainty," *Proceedings of the 1990 National Meeting of the Decision Sciences Institute*, 764-766.

De, P., J. Ghosh, and C.E. Wells, "Performance Evaluation of a Beam Search Strategy for a Machine Scheduling Problem," *Proceedings of the 1989 National Meeting of the Decision Sciences Institute*, 904-907.

De P., J. Ghosh, and C.E. Wells, "Variance Minimizing Schedules: Heuristic Solution and Lower Bound for Performance Evaluation," *Proceedings of the 1988 National Meeting of the Decision Sciences Institute*, 1032-1034.

Wells, C.E., G.A. Bohlen, and E.J. Dunne, "The Development of an Expert System for Faculty Scheduling and its Impact on the Scheduling Decision Process," *Proceedings of the 1986 National Meeting of the Decision Sciences Institute*.

McClure, R.H., and C.E. Wells, "An Efficient Representation of Multiple Criteria in the Faculty Assignment Problems," *Proceedings of the 1986 National Meeting of the Decision Sciences Institute*.

Wells, C.E., "Sales Resource Allocation: Integrating Sales Force Preferences with Organizational Objectives," *Proceedings of the 1985 National AIDS Meeting*.

McClure, R.H., and C.E. Wells, "A Decision Support System for Generating Faculty Teaching Assignments," *Proceedings of the 1984 National AIDS Meetings*.

McClure, R.H., and C.E. Wells, "Modeling Multiple Criteria Problems Using Multiple Knapsacks," in *Operational Research '84*, Edited by Belshair, P. A., North Holland, 1984.

Wells, C.E., "On the Modeling of Preventive Maintenance Performed on a System whose Mission is of Random Duration," *Proceedings of the 1983 National AIDS Meetings*.

Non-refereed Articles and Presentations

Wells, C.E., "On the Use of Matrix Transforms to Analyze Systems with Random Lifetimes," 2014 ERCIM International Meeting, University of Pisa, Italy, (invited).

De, P., J. Ghosh, and C.E. Wells, "The Discrete Time/Cost Tradeoff Problem: Analysis of Complexity", 1993 ORSA/TIMS Joint National Meeting, Chicago, Illinois.

Lear, C., D. Uddin, and C.E. Wells, "Correlation of Minnesota Multiphasic Personality Inventory (MMPI) with Outcome of a Work Hardening Program and Return to Work," Specialty Sections of the American Physical Therapy Association, 1993, San Antonio, Texas.

De, P., J. Ghosh, and C.E. Wells, "Discrete Time Cost Trade-off Problem for Activity Networks," 1992 ORSA/TIMS Joint National Meeting, Orlando, Florida.

De, P., J. Ghosh, and C.E. Wells, "Due-Date Assignment and Scheduling on Multiple Machines," 1991 International TIMS, Rio de Janeiro, Brazil.

Agarwal, R., P. De, J. Ghosh, and C.E. Wells, "Distributed Operational Control of Flexible Shops," 1991 ORSA/TIMS Joint National Meeting, Nashville, Tennessee.

Wells, C., "Design Optimization of Complex Systems by Goal Decomposition," AFHRL Technical Report, AFHRL-TP-90-65.

De, P., J. Ghosh, and C.E. Wells, "The Completion Time Variance Problem Revisited," 1990 ORSA/TIMS Joint National Meeting, Las Vegas, Nevada, (invited).

De, P., J. Ghosh, and C.E. Wells, "Scheduling Jobs with Random Processing Times on a Single Machine," Department of QA/IS, University of Cincinnati, 1990, (invited).

McClure, R.H., and C.E. Wells, "Goal Decomposition and Modeling with Nonlinear Deviations," 1989 TIMS/ORSA Joint National Meeting, Vancouver, Canada.

McClure, R.H., and C.E. Wells, "Application of Nonlinear Goal Deviations in Goal Programming Models," 1988 TIMS/ORSA Joint National Meeting, Washington, D.C.

Wells, C.E., "Future Costs of Lifetime Warranties," 1986 ORSA/TIMS Joint National Meeting, Los Angeles, California.

McClure, R.H., and C.E. Wells, "A Goal Programming Model for the Faculty Assignment Problem," 1986 ORSA/TIMS Joint National Meeting, Los Angeles, California.

McClure, R.H., and C.E. Wells, "Incorporating Ordinal Values for Assignment Desirability in the Faculty," 1985 ORSA/TIMS Joint National Meeting, Miami Beach, Florida.

McClure, R.H., and C.E. Wells, "A Model for the Sales Resource Allocation Problem," 1985 ORSA/TIMS Joint National Meeting, Miami Beach, Florida.

McClure, R. H., C.E. Wells, and G.B. Williams, "Application of Artificial Intelligence Techniques to Statistical Methods: A Survey and Comments," *Modeling and Simulation*, 1985.

McClure, R.H., C.E. Wells, and G.B. Williams, "An Analysis of the Menu Planning Problem: A Survey of Mathematical Programming Models," *Modeling and Simulation*, 1984, 15, 1967-1971.

McClure, R.H., C.E. Wells, and G.B. Williams, "A Preliminary Discussion Of The Logical Design Of An Expert Menu Planning System," *Modeling And Simulation*, 1984, 15, 1974-1978.

McClure, R.H., and C.E. Wells, "An Analysis of Value Functions Used in Faculty Course Assignment Models," 1983 ORSA/TIMS Joint National Meeting, Orlando, Florida.

McClure, R.H., and C.E. Wells, "A Critical Survey of Mathematical Programming Models For Faculty Teaching Load Assignments," *Modeling And Simulation*, 1983, 14, 1339-1342.

McClure, R.H., and C.E. Wells, "An Integer Programming Model for Faculty Course Assignments," *Modeling and Simulation*, 1983, 14, 1343-1347.

Wells, C.E., "Optimal Repurchasing of Repair Kits for Systems With Random Lifetimes," *Modeling and Simulation*, 1981, 12, 623-628.

Selected University Service Activities since 1990

CAP Leadership Committee, 2013-2015

Graduate Leadership Council, 1998-2001, 2003, 2007-2015

University Diversity Liaison, 2003

First Year Experience Committee, 2001-2002

Objectives and Purposes Committee, University of Dayton Board of Trustees, 1993-2002

Academic Senate, 1991-92, 1998

Academic Policies Committee 1998

University Faculty Awards Committee, 1993-1996, 2015-present

Fund for Educational Development Committee, 1993-1996

Committee for the Academic Plan, 1991-1993

Student Academic Policies Committee, 1991-1992

SBA AACSB Accreditation Coordinator, 2003-2004

SBA Administrative Committee 1998-2012

SBA Promotion, Tenure, and Faculty Review Document Revision Committee, 1994-1995 (Chair)

SBA Graduate Committee 1993-1995, 1996-1998 (Chair, 1996-1997), 2004-2005, 2007-present

SBA Promotion, Tenure, and Faculty Review Comm., 1990-1993, 1995-1996, (Chair, 1991-1993)

SBA Ph.D. Development Committee, 1993

MBA Review Committee, Chair, 2008

Department Curriculum Committee, 1986-present

Department Promotion and Tenure Comm., 1991-1998 (Chairperson, 1991-1993, 1995), 2004-present

Department Recruiting Committee, 1991-1994, 2005-2007, 2008-09