

DAVID A. SCHILLING

Department of Management Sciences
The Ohio State University
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EDUCATION

Ph.D. The Johns Hopkins University, 1976, Management Science

B.S. Miami University, 1972, Physics, Honors

PROFESSIONAL EXPERIENCE

- 2015- Professor Emeritus of Management Sciences, Department of Management Sciences, Fisher College of Business, Ohio State University.
- 2000-15 Director of General Business Programs and Professor of Management Sciences, Department of Management Sciences, Ohio State University.
- 1996-00 Professor of Management Sciences, Department of Management Sciences, Ohio State University
- 1989-96 Chairman and Professor of Management Sciences, Department of Management Sciences, Ohio State University
- 1988-89 Chairman and Associate Professor of Management Sciences, Department of Management Sciences, Ohio State University
- 1987-88 Academic Director of the MBA Program and Associate Professor of Management Sciences, Faculty of Management Sciences, Ohio State University
- 1983-87 Associate Professor of Management Sciences, Faculty of Management Sciences, Ohio State University.
- 1978-83 Assistant Professor of Management Sciences, Faculty of Management Sciences, Ohio State University.
- 1976-78 Assistant Professor of Management Sciences, Center for Technology and Administration, The American University, Washington, DC 20016.

HONORS/AWARDS/RECOGNITIONS

Outstanding Professor, Fulltime MBA, Elective Course, 2018
Pace Setters Bostic-Georges Faculty Service Award 2013
Deans Summer Research Fellowship, 2011, 2012, 2013
Undergraduate Program Teaching Award, 2002

EDITORSHIPS

- 1991-2000 *Location Science*, Associate Editor.
1989 *INFOR*, Special Issue on Locational Modeling, Guest Editor
1988 *Geographical Analysis*, Special Issue on Locational Modeling, Guest Editor
1987-94 *Abstracts in Location Analysis*, Founding Co-Editor

REFEREED PUBLICATIONS

1. "A Note on the Location Model of Holmes, Williams, and Brown," C.S. ReVelle, R.L. Church, and D.A. Schilling, *Geographic Analysis*, Vol. VII, No. 4, October, 1975.
2. "Facility Location Analysis: A Review of Context-free and EMS Models," C.S. ReVelle, D. Bigman, D.A. Schilling, J.L. Cohon, and R.L. Church, *Health Services Research*, Spring, 1977.
3. "The TEAM-FLEET Models for Simultaneous Facility and Equipment Siting," D.A. Schilling, D.J. Elzinga, J.L. Cohon, R. Church, and C.S. ReVelle, *Transportation Science*, Vol. 13, No. 2, May, 1979.
4. "Some Models for Fire Protection Location Decisions," D.A. Schilling, C.S. ReVelle, J. Cohon, and D.J. Elzinga, *European Journal of Operations Research*, Vol. 5, No. 1, 1980.
5. "The Dynamic Location of Public Sector Facilities: A Multicriteria Approach," D.A. Schilling, *Decision Sciences*, Vol. 11, No. 4, October, 1980.
6. "Strategic Facility Planning: The Analysis of Options," D.A. Schilling, *Decision Sciences*, Vol. 13, No. 1, January, 1982.
7. "Hidden Attributes and the Display of Information from Multicriteria Analysis," D.A. Schilling, A. McGarrity, and C.S. ReVelle, *Management Science*, Vol. 28, No. 3, March, 1982.
8. "An Approach to the Display and Analysis of Multiobjective Problems," D.A. Schilling, C.S. ReVelle, and J.L. Cohon, *Socio-Economic Planning Sciences*, Vol. 17, No. 2, 1983.
9. "A Comparative Study of Three Methods of Eliciting Preference Information," M.A. Rothermel and D.A. Schilling. *OMEGA*, Vol. 12, No. 4, July, 1984.
10. "Asymptotic and Finite Sample Characteristics of Four External Criterion Measures," G.W. Milligan and D.A. Schilling, *Multivariate Behavioral Research*, Vol. 20, No. 1, January, 1985.
11. "Design and Implementation of Decision Support Systems in the Public Sector," J.C. Henderson and D.A. Schilling, *MIS Quarterly*, June, 1985.
Reprinted in *The Rise of Managerial Computing*, Rockart and Bullen, Eds., Dow Jones-Irwin, 1986.

12. "Conjoint Measurement in Multiple Objective Decision Making: A New Approach," M.A. Rothermel and D.A. Schilling, *The European Journal of Operations Research*, Vol. 23, No. 3, March, 1986.
13. "Elimination of Source A and B Errors in P-Median Location Problems," J.R. Current and D.A. Schilling, *Geographic Analysis*, Vol. IX, No. 2, April, 1987.
14. "The Siting of Emergency Service Facilities with Workload Capacities and Backup Service," H. Pirkul and D.A. Schilling, *Management Science*, Vol. 34, No. 7, July, 1988.
15. "The Capacitated Maximal Covering Location Problem with Backup Service," H. Pirkul and D.A. Schilling, *Annals of Operations Research*, Vol. 17, 1989.
16. "The Covering Salesman Problem," J.R. Current and D.A. Schilling, *Transportation Science*. Vol. 23, 1989.
17. "Analysis of Errors Due to Demand Data Aggregation in the Set Covering and Maximal Covering Location Problems," J. Current and D.A. Schilling, *Geographical Analysis*, Vol. 22, No. 2, April, 1990.
18. "Invited Review: Multiple Objective Modeling of Facility Location Decisions," J. Current, H. Min, and D.A. Schilling, *European Journal of Operations Research*, Vol. 49, No. 6, 1990.
19. "The Maximum Covering Location Problem with Capacities on Total Workloads," H. Pirkul and D.A. Schilling, *Management Science*, Vol. 37, February, 1991.
20. "The Multiple Depot Vehicle Routing Problem with Backhauling," H. Min, J. Current, and D.A. Schilling, *Journal of Business Logistics*, Vol. 13, No. 1, 1992.
21. "Capacitated Emergency Facility Siting with Multiple Levels of Backup," S. Narasimhan, H. Pirkul, and D.A. Schilling, *Annals of Operations Research*, 1992.
22. "A Review of Covering Problems in Facility Location," D.A. Schilling, V. Jayaraman, and R. Barkhi, *Location Science*, Vol. 1, No 1, 1993.
23. "The Median Tour and Maximal Covering Tour Problems: Formulation and Heuristics," J. Current and D.A. Schilling, *European Journal of Operations Research*, Vol. 73, 1994.
24. "Invited Review: Equity Measurement in Facility Location Analysis: Review and Framework," M. Marsh and D.A. Schilling, *European Journal of Operations Research*, Vol. 74, No. 1, 1994.
25. "A Tabu Search Approach to the p-Median Problem," E. Rolland, D.A. Schilling, and J. Current, *European Journal of Operations Research*, Vol. 96, 1996.
26. "Heuristic Concentration and Tabu Search: A Head to Head Comparison," K. Rosing, C.S. ReVelle, E. Rolland, D.A. Schilling, and J. Current, *European Journal of Operations Research*, Vol. 104, No 1, 1998.

27. "An Efficient Procedure for Designing Single Allocation Hub and Spoke Systems," H. Pirkul and D.A. Schilling, *Management Science*, Vol. 44, No. 12-2, 1998.
28. "A Gamma Heuristic for the p-Median Problem," K.E. Rosing, C.S. ReVelle, and D.A. Schilling, *European Journal of Operations Research*, Vol. 117, pp522-532, 1999.
29. "Hard Networks: Network Distance Characteristics that Affect Computational Effort in p-Median Location Problems," D.A. Schilling, K.E. Rosing, and C.S. ReVelle, *European Journal of Operations Research*, Vol. 127, No. 3, 2000.
30. "Master Production Scheduling in Capacitated Sequence-Dependent Process Industries," with Hill and Leong, *International Journal of Production Research*, Vol. 38, No.18, 2000.
31. "Discrete Network Location Models," in Drezner and Hammacher (eds.), *Location Analysis: Applications and Theory*, with John R. Current and Mark Daskin, 2001
32. "Revising the Master Production Schedule in a Sequence-Dependent Process," with Hill and Berry, *International Journal of Production Research*, Vol.41, No.9, 2003, pp2021-2035.
33. "Dynamic Capabilities through Continuous Improvement Infrastructure". With Anand, Ward, and Tatikonda, *Journal of Operations Management*, Volume 27, Issue 5, pp 444-461, October/November, 2009
34. "Supply Chain Integration and the SCOR Model", with Zhou, Benton, and Milligan, *Journal of Business Logistics*, Vol 32, No. 4, pp332-344, 2011

PROFESSIONAL SERVICE

Administrative Positions Held

- Director, General Business Programs, 2000 - 2015
Responsible for developing, implementing and operating the General Business Major and Minor programs. The Minor consists of a series of functional area courses designed to meet the demand of non-business students for management training. The Major is a unique program that delivers thirteen courses via distance education technologies to the four regional campuses of Ohio State.
- Chairperson, Department of Management Sciences, 1988 to 1996 (reappointed to second four-year term in 1992)
Responsible for a department of 17 faculty, 20 Ph.D. students, several part-time instructors, as well as office staff. Responsible for a budget of \$1.5 million, faculty and staff salary increases, staffing and scheduling all courses offered by the department, and providing overall leadership.
- Academic Director, MBA Programs, 1987-88.
Responsibilities of this office included: coordination of the annual MBA Committee Retreat; creation of the MBA Faculty Handbook (a 100-page manual of information for MBA instructors); coordination of midterm and final exams in all MBA core courses; mediate conflicts that arise between students and instructors; service as liaison between the MBA Office and Faculty Departments; development of the MBA Graduate School Handbook (the definitive source for all MBA Program policies as required by the Graduate School); survey of vendors and proposed configurations for personal computers to be used in the MBA Program.

Service Outside the University

- Informs Prize for Teaching Committee, 2010-2012
- Founding Chairperson, The Institute of Management Science, College on Location Analysis, 1988 to 1995. Executive Committee, 1988 to 2000.
- Chairperson, The Institute of Management Science, College on Information Systems, 1988 to 1990; Vice Chair, 1986-1988; Executive Committee, 1988-1998.
- Chair, Executive Program Committee, DSS-8X Conferences, 1988-1990; Member, 1986-1990.
(This committee has oversight responsibility for all of the annual DSS-8X conferences including determining general guidelines for paper selection, track format as well as selection of the conference site, date, General Chair and Conference Chairs.)
- Executive Program Committee, International Conference on Information Systems, 1988, 1990 to 1994.
(This committee has responsibility for setting policy for the annual ICIS conferences including guidelines on meeting format, as well as selection of the conference site, date, General Chair and Conference Chairs.)

- Program Committee, National Conference of the Regional Science Association, 1987, 1988.
- Organized, with Professor Current, the Locational Analysis track of sessions at the 1987 National Meetings of the Regional Science Association held in Baltimore, MD.
- Organized, with Professor Current, the Locational Analysis track of sessions at the 1988 National Meetings of the Regional Science Association held in Toronto, Ontario, Canada.
- Chairperson for a session at the 1986 National Meetings of the Regional Science Association. Also served as an invited discussant.
- Chairperson for a session at the 1987 National Meetings of the Regional Science Association. Also served as an invited discussant.
- Reviewer: National Science Foundation, *Operations Research*, *Management Science*, *Decision Sciences*, *European Journal of Operations Research*, *Location Science*, *Naval Research Logistics*, *Annals of Operations Research*, *Environment and Planning-B*, *Geographical Analysis*, *Journal of the Regional Science Association International*, *Journal of Operations Management*, Decision Sciences Institute, Regional Science Association, Natural Sciences and Engineering Research Council of Canada.

College or University Service

Member, Presidential Fellowship Committee, 2008-2010

Member, University Center for Urban and Regional Analysis. Sept 2005-2009.

Governing Board, Center for Urban and Regional Analysis, 2005 - 2009

Coordinating Council, Technology Enhanced Learning and Research, 1999 - present

University Advisory Committee on Research Computing, 1988-90.

Governing Board, Center for Mapping, 1990-1997.

Graduate School Leadership Awards Committee, 1987.

Undergraduate Programs in Business, Member. (September 2006 - Present).

EMBA curriculum strategy planning and semester conversion, Member. (2010 - 2012).

Chairperson, College Personnel Committee, 1987-88, 2006-2008;

Vice Chairperson, 1986-87;

Member, 1984-88, 1999 - 2008.

This is the promotion and tenure committee for the College of Business, and, as such,

reviews and approves all faculty promotions, leaves of absence, and advanced rank hires.

Chairperson, MBA Committee, 1987-88.

This committee is responsible for establishing educational policies for the programs leading to the Masters of Business Administration.

Chairperson, College Computer Committee, 1985-87; Member, 1983-87, 1990-1994.

Responsible for allocation of computing equipment budget, purchasing decisions, and departmental allocation of equipment, as well as supervision of computing facilities and services in the College of Business.

Chairperson, College Blue Ribbon Commission on Research, 1990-91.

Responsible for developing a strategic plan for the College's mission of research.

College Blue Ribbon Commission on Executive Education Member, 1991.

Responsible for developing a strategic plan for the College's Executive Education activities.

College Information Systems Strategic Planning Committee, 1991

Committee is responsible for developing the strategic plan information systems and computing technology for the College of Business.

College Steering Committee Member, 1990-91.

Responsible for developing an overall strategic plan for the College of Business.

College Strategic Planning Committee, 1988.

Committee is responsible for developing the strategic plan for the College of Business.

Information Systems Coordinating Committee, 1983-87.

Coordination and supervision of computer related instruction in the College.

Founding Faculty Advisor, Black MBA Association, 1987 to 1992.

Faculty Advisor, MBA Association, 1985 to 1989.

Computer Architecture Committee of the MIS Advisory Board, 1986-87.

MBA MIS Curriculum Review Committee, 1984.

IBM-MIS Grant Committee, 1984.

College Ph.D. Committee, 1979-83.

MBA Quantitative Methods Curriculum Committee, 1979-80.

Management Sciences Symposium Committee, 1979-80.

Departmental Committees

Chairperson, Decision Sciences Subfaculty, 1981 to 1988, 1996 to 2001, 2006 - present
The responsibilities of this position include some of the non-budgetary roles of the faculty chairperson such as recruiting, course scheduling, curriculum review, coordination of undergraduate courses, Ph.D. student recruiting and admissions, conflict resolution, administrative tasks and socialization activities.

Course Coordinator, Bus. Mgt. 331, Introduction to Operations Research, 1982-1986,
1996-2002, 2004 to present.
Bus. Mgt. 330, Business Statistics, 2005 – present

Management Sciences Administrative / Executive Committee, 1979 to present.

MBOE Graduate Studies Committee, Member. (2009 - Present).

Management Sciences PhD Committee (Chair 2006), 2005 - present

Decision Sciences Curriculum Committee (Chair), 2005 - present.

Decision Sciences Faculty Recruiting Committee, 1982-84.

Decision Sciences Ph.D. Admissions, Review Committee, 1978 to 2005.

Chairperson, Anna Dice Fellowship Committee, 1983, 1988.

Microcomputer Committee, 1983.

Space Allocation Committee, 1983.

Grade Grievance Committee, 1982.

College Senate, Faculty Alternate, 1982-1983.