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Academic and Professional Qualifications

Ph.D. (1986) Management Science – University of California, Berkeley.

M.A. (1979) Economics – University of Cambridge.

B.A. (1975) Economics – University of Cambridge.

A.C.A. (1978) Associate Member, Institute of Chartered Accountants in England and Wales.

Permanent Academic and Professional Positions

1996 – : Professor, Department of Management Sciences, The Ohio State University.

1996 – 2006, 2012 – : Professor, Department of Integrated Systems Engineering, The Ohio State University.

1989 – 1996: Associate Professor, Department of Management Sciences, The Ohio State University.

1989 – 1996: Associate Professor, Department of Industrial and Systems Engineering, The Ohio State University.

1983 – 1989: Assistant Professor, Department of Management Sciences, The Ohio State University.

1979 – 1983: Teaching and Research Assistant, Graduate School of Business Administration, University of California, Berkeley.

1975 – 1979: Associate Accountant (various ranks), Audit and Corporate Taxation Divisions, Coopers & Lybrand, London.

Temporary Academic Positions

December 2012: Visiting Professor, Antai College of Economics and Management, Shanghai Jiao Tong University, China.

May 2008, June – August 2009, June – August 2010: Visiting Professor, Department of Decision Sciences, National University of Singapore.

June – July 2006: Visiting Professor, Department of Industrial Engineering & Engineering Management, Hong Kong University of Science and Technology.

December 2004, June 2006, August 2010, June 2011: Visiting Professor, Department of Systems Engineering & Engineering Management, Chinese University of Hong Kong.

November 2004, July 2006, May 2008, August 2010, July 2011: Visiting Professor, Department of Logistics, Hong Kong Polytechnic University.

November 2000, July 2001, July 2002, July 2003, December 2004: Visiting Academic, Faculty of Mathematical Studies, University of Southampton, U.K.

August 1999 – May 2000: Visiting Professor, Department of Systems Engineering, School of Engineering and Applied Science, University of Pennsylvania.

October – December 1995: Visiting Fellow, Graduate School of Policy Science, Saitama University, Urawa, Japan.

March – June 1993: Visiting Associate Professor of Managerial Economics and Decision Sciences, The Kellogg Graduate School of Management, Northwestern University.

August 1990 – May 1991: Visiting Associate Professor of Decision Sciences, The Wharton School, University of Pennsylvania.

Awards and Honors

Top Cited Article Award, *Discrete Applied Mathematics*, 2005–2010.

From November 2006: Fellow, Data Driven Decisions Laboratory, The Ohio State University.

From May 2002: Fellow, Center for Decision Making with Uncertainty, Chinese Academy of Sciences, Beijing, China.

Meritorious Service Award, *Operations Research* journal, awarded for “Exceptional work performed on behalf of the Editorial Board”, 1996, 1997, 2000, 2004, 2009, 2012.

Pace Setters’ Research Award (alumni-sponsored annual award to one of 98 Fisher College of Business faculty members), winner 1998, (ineligible 1999–2003), winner 2005.

Outstanding Evening MBA Program Teaching Award (student award to the best of 12 Evening MBA Program faculty): 2nd place, 1995, 1996, 1997.

Outstanding Undergraduate Business Teaching Award (nominated by students): multiple nominations, 1983–2009.

Graduate Student Research Fellowship, University of California, Berkeley, 1982–1983.

Open Exhibition in Economics, Trinity College, University of Cambridge, 1972–1975.

Research

Statement of Research Interests

1. My main research interest falls within the field of *operations and supply chain management*. More specifically, I am interested in the study of *operational decisions, and their coordination, in projects and supply chains*. Several types of operational decisions are included, as now discussed.
 - a. A variety of issues in connection with *project management*, for example the development of robust optimization models for project selection and for activity crashing decisions, and coordination and incentive issues among subcontractors.
 - b. The *coordination of scheduling decisions* by decision makers within a supply chain. Examples include the development of algorithms, and the evaluation of the benefit of coordinated decision making, for four different supply chain scheduling environments involving suppliers, manufacturers and distributors.
 - c. The *study of cooperative games* that model coordinated decision making. Examples include a supply chain in which available capacity is insufficient to meet demand and distributors share their allocated capacity using a cooperative game to maximize their overall profit.
 - d. The *integration of pricing decisions with other operational decisions* in supply chains. Examples include the coordination of pricing and scheduling decisions to maximize net profit.
 - e. Performance analysis for *online and semi-online planning problems*. Examples include a scheduling system in which jobs can arrive only at known discrete times in the future, which interpolated between the classical offline and online scheduling environments.
 - f. The *rescheduling of an original schedule* after a manufacturing disruption occurs. Examples include the development of optimal algorithms for rescheduling with minimal change to the original schedule in the presence of unexpected orders, and in response to the late arrival of incoming jobs.

2. I am also interested in the development of an *empirical science of algorithms*. Examples include the development of general methodologies for the generation of synthetic random data, and for choosing between existing algorithms based on easily computed characteristics of a problem instance.

3. I am also interested in *applications of operations research and statistics*, especially optimization, to a variety of problem areas, including:
 - i. Public sector decision making.
 - ii. Health care.
 - iii. Sports, especially golf, administration.
 - iv. The design and optimization of advanced manufacturing and project management systems, for example using agile methodology.

Refereed Publications

1. Wen, X. and N.G. Hall, “Minimizing Information Loss in Secret Project Management”, revised for *Management Science*. [Secret project management; information loss; Stackelberg game; optimal protection strategy.]
2. Hall, N.G., J.Y.-T. Leung and C.-L. Li, “Scheduling with Multitasking: Responding to Boredom and Routine Interruptions”, revised for *Discrete Applied Mathematics*. [Scheduling; motivations for multitasking; efficient algorithm; computational complexity.]
3. Cai, X., N.G. Hall and M. Lai, “Shippers’ Collaboration in Less-Than-Truckload Shipment Consolidation”, revised for *Operations Research*. [Less-than-truckload transportation; shipment consolidation; cooperative game; heuristic.]
4. Chen, Z.-L., N.G. Hall and H. Kellerer, “Dynamic Pricing to Minimize Maximum Regret”, revised for *Production and Operations Management*. [Dynamic pricing; interval uncertainty; minimax regret; linear programming.]
5. Esenduran, G., N.G. Hall and Z. Liu, “Environmental Regulation in Project-Based Industries”, *Naval Research Logistics* **62** (2015) 228–247. [Environmental regulation; project management; bilevel nonlinear program; incentives.]
6. Hall, N.G., Z. Long, J. Qi and M. Sim, “Managing Underperformance Risk in Project Portfolio Selection”, *Operations Research*, **63** (2015) 660–675. [Project selection; risk and ambiguity; riskiness index; greedy heuristic.]
7. Hall, N.G., J.Y.-T. Leung and C.-L. Li, “The Effects of Multitasking on Operations Scheduling”, *Production and Operations Management*, **24** (2015) 1248–1265. [Scheduling; multitasking; polynomial time algorithm; cost and value of multitasking.]
8. Hall, N.G., “Further Research Opportunities in Project Management”, Chapter 43 in *Handbook of Project Management and Scheduling, Vol. 2*, ed. C. Schwindt and J. Zimmerman. Springer, 2015, 945–970. [Project management; overview; recent practical developments; opportunities for research.]
9. Goh, J. and N.G. Hall, “Total Cost Control in Project Management via Satisficing”, *Management Science*, **59** (2013) 1354–1372. [Project management; time and cost control under uncertainty; satisficing; linear decision rule.]
10. Hall, N.G. and Z. Liu, “Market Good Flexibility in Capacity Auctions”, *Production and Operations Management*, **22** (2013) 459–472. [Noncooperative game; auction; market good flexibility; capacity allocation.]
11. Hall, N.G., “Project Management: Recent Developments and Research Opportunities”, *Journal of Systems Science and Systems Engineering*, **21** (2012) 129–143. [Project management; overview; recent practical developments; opportunities for research.]

12. Hall, N.G. and C.N. Potts, “A Proposal for Redesign of the FedEx Cup Playoff Series on The PGA Tour”, *Interfaces*, **42** (2012) 166–179. [Sports application; professional golf administration; probabilistic analysis; sensitivity analysis.]
13. Hall, N.G. and M.E. Posner, “The Generation of Experimental Data for Computational Testing in Optimization”, Chapter 3 in *Empirical Methods for the Analysis of Optimization Algorithms*, ed. T. Bartz-Beielstein, M. Chiarandini, L. Paquete and M. Preuss, Springer, Berlin, Germany, 2011. [Computational testing; design of experiments; generation of random data; optimization.]
14. Hall, N.G., “Supply Chain Scheduling: Origins, and Application to Sequencing, Batching and Lot Sizing”, *Wiley Encyclopedia of Operations Research and Management Science*, 2011. [Supply chain scheduling; origins; batching; lot sizing.]
15. Hall, N.G. and Z. Liu. 2010. “Capacity Allocation in Supply Chain Scheduling”, *Wiley Encyclopedia of Operations Research and Management Science*, ed. J.J. Cochran, 576–584. [Supply chain scheduling; capacity allocation; cooperative game; noncooperative game.]
16. Hall, N.G. and Z. Liu, “On Auction Protocols for Decentralized Scheduling”, *Games and Economic Behavior*, **72** (2011) 583–585. [Capacity allocation and scheduling; noncooperative game; auction; equilibrium.]
17. Hall, N.G. and Z. Liu, “Capacity Allocation and Scheduling in Supply Chains”, *Operations Research*, **58** (2010) 1711–1725. [Supply chain; capacity allocation and scheduling; cooperative game; value of coordination.]
18. Hall, N.G. and C.N. Potts, “Rescheduling for Job Unavailability”, *Operations Research*, **58** (2010) 746–755. [Rescheduling with new release dates; pseudopolynomial time algorithm; worst-case analysis of approximation algorithms; fully polynomial time approximation schemes.]
19. Chen, Z.-L. and N.G. Hall, “The Coordination of Pricing and Scheduling Decisions”, *Manufacturing & Service Operations Management*, **12** (2010) 77–92. [Scheduling; pricing; optimal and approximate algorithms; value of coordination.]
20. Hall, N.G., M.E. Posner and C.N. Potts, “Online Scheduling with Known Arrival Times”, *Mathematics of Operations Research*, **34** (2009) 92–102. [Machine scheduling; online algorithm; total weighted completion time; competitive analysis.]
21. Hall, N.G. and Z. Liu, “Cooperative and Noncooperative Games for Capacity Planning and Scheduling”, *Tutorials in Operations Research*, (2008) 108–129. [Capacity planning and scheduling; cooperative game; noncooperative game; auction.]
22. Hall, N.G., L. Lei and M. Pinedo, editors, “Supply Chain Coordination and Scheduling”, special volume of *Annals of Operations Research*, **161** (2008) 188 pages. [Supply chain management; manufacturing; coordination; scheduling.]

23. Chen, Z.-L. and N.G. Hall, “Maximum Profit Scheduling”, *Manufacturing & Service Operations Management*, **10** (2008) 84–107. [Manufacturing and scheduling; profit maximization; make-to-stock and make-to-order; algorithms and heuristics.]
24. Asef-Vaziri, A., N.G. Hall and R. George, “The Significance of Deterministic Empty Vehicle Trips in the Design of a Unidirectional Loop Flow Path”, *Computers & Operations Research*, **35** (2008) 1546–1561. [Material handling; flow path and station location design; automated guided vehicle systems; generalized travelling salesman problem.]
25. Chen, Z.-L. and N.G. Hall, “Supply Chain Scheduling: Conflict and Cooperation in Assembly Systems”, *Operations Research*, **55** (2007) 1072–1089. [Supply chain scheduling; cooperation in decision making; cost of conflict; benefit of cooperation.]
26. Hall, N.G., Z. Liu and C.N. Potts, “Rescheduling for Multiple New Orders”, *INFORMS Journal on Computing*, **19** (2007) 633–645. [Deterministic scheduling; rescheduling for new job disruptions; heuristic worst-case analysis; branch and bound algorithm.]
27. Hall, N.G. and M.E. Posner, “Performance Prediction and Preselection for Optimization Procedures”, *Operations Research*, **55** (2007) 703–716. [Computational testing; prediction of algorithm performance; choice of algorithm; statistical analysis.]
28. Dawande, M., H.N. Geismar, N.G. Hall and C. Sriskandarajah, “Supply Chain Scheduling: Distribution Systems”, *Production and Operations Management*, **15** (2006) 243–261. [Supply chain scheduling; distribution system; cooperation in decision making; algorithms.]
29. Agnetis, A., N.G. Hall and D. Pacciarelli, “Supply Chain Scheduling: Sequence Coordination”, *Discrete Applied Mathematics*, **154** (2006) 2044–2063. [Manufacturing; supply chain scheduling; cooperation; polynomial time algorithm.]
30. Hall, N.G., G. Laporte, E. Selvarajah and C. Sriskandarajah, “Scheduling and Lot Streaming in Two Machine Open Shops with No-Wait in Process”, *Naval Research Logistics*, **52** (2005) 261–275. [Machine scheduling; lot streaming and batching; no-wait open shops; generalized traveling salesman problem.]
31. Hall, N.G. and C.N. Potts, “The Coordination of Scheduling and Batch Deliveries”, *Annals of Operations Research*, **135** (2005) 41–64. [Manufacturing and scheduling; batching and delivery; sequencing; dynamic programming.]
32. Hall, N.G. and C.N. Potts, “Rescheduling for New Orders”, *Operations Research*, **52** (2004) 440–453. [Deterministic scheduling; new job disruption; polynomial time algorithm; NP-complete.]
33. Hall, N.G. and M.E. Posner, “Sensitivity Analysis for Scheduling Problems”, *Journal of Scheduling*, **7** (2004) 49–83. [Manufacturing and scheduling; sensitivity analysis; optimization; heuristics.]

34. Hall, N.G. and C.N. Potts, “Supply Chain Scheduling: Batching and Delivery”, *Operations Research*, **51** (2003) 566–584. [Manufacturing and scheduling; supply chain scheduling; batching and delivery; dynamic programming.]
35. Hall, N.G., G. Laporte, E. Selvarajah and C. Sriskandarajah, “Scheduling and Lot Streaming in Flowshops with No-Wait in Process”, *Journal of Scheduling*, **6** (2003) 339–354. [Machine scheduling; lot streaming; no-wait flowshops; generalized traveling salesman problem.]
36. Hall, N.G., T.-E. Lee and M.E. Posner, “The Complexity of Cyclic Shop Scheduling Problems”, *Journal of Scheduling*, **5** (2002) 307–327. [Manufacturing; periodic scheduling; sequencing; algorithms and complexity.]
37. Hall, N.G., T. Ganesharajah and C. Sriskandarajah, “Operational Decisions in AGV-Served Flowshop Loops: Scheduling”, *Annals of Operations Research*, **107** (2001) 161–188. [Manufacturing; automated guided vehicles; scheduling; heuristics.]
38. Hall, N.G., T. Ganesharajah and C. Sriskandarajah, “Operational Decisions in AGV-Served Flowshop Loops: Fleet Sizing and Decomposition”, *Annals of Operations Research*, **107** (2001) 189–209. [Manufacturing; automated guided vehicles; decomposition; heuristics.]
39. Hall, N.G. and M.E. Posner, “Generating Experimental Data for Computational Testing with Machine Scheduling Applications”, *Operations Research*, **49** (2001) 854–865. [Computational testing; design of experiments; generation of random data; manufacturing and scheduling.]
40. Hall, N.G. and M.J. Magazine, “Scheduling and Sequencing”, *Encyclopedia of Operations Research and Management Science*, (2001), Kluwer Academic Publishers, Norwell, MA, 734–739. [Scheduling; introductory survey; models; algorithms.]
41. Hall, N.G., M. Lesaoana and C.N. Potts, “Scheduling with Fixed Delivery Dates”, *Operations Research*, **49** (2001) 134–144. [Deterministic scheduling; fixed delivery dates; polynomial time algorithm; *NP*-complete.]
42. Hall, N.G., C.N. Potts and C. Sriskandarajah, “Parallel Machine Scheduling with a Common Server”, *Discrete Applied Mathematics*, **102** (2000) 223–243. [Parallel machine scheduling; common server; polynomial time algorithm; *NP*-complete.]
43. Abadi, I.N.K., N.G. Hall and C. Sriskandarajah, “Minimizing Cycle Time in a Blocking Flowshop”, *Operations Research*, **48** (2000) 177–180. [Manufacturing; blocking flowshop; traveling salesman problem; computational study.]
44. Kamoun, H., N.G. Hall and C. Sriskandarajah, “Scheduling in Robotic Cells: Heuristics and Cell Design”, *Operations Research*, **47** (1999) 821–835. [Manufacturing; robotic cell; heuristics; cell design.]
45. Hall, N.G., “Operations Research Techniques for Robotic System Planning, Design, Control and Analysis”, Chapter 30 in *Handbook of Industrial Robotics*, vol. II, ed. S.Y. Nof, John

- Wiley, New York, (1999) 543–577. [Robotic systems; introduction to operations research; applications; survey.]
46. Hall, N.G., W.-P. Liu and J.B. Sidney, “Scheduling in Broadcast Networks”, *Networks*, **32** (1998) 233–253. [Broadcasting; scheduling; polynomial time algorithm; *NP*-complete.]
 47. Hall, N.G., H. Kamoun and C. Sriskandarajah, “Scheduling in Robotic Cells: Complexity and Steady-State Analysis”, *European Journal of Operational Research*, **109** (1998) 43–65. [Manufacturing; robotic cell; deterministic scheduling; computational complexity.]
 48. Hall, N.G., M.E. Posner and C.N. Potts, “Scheduling with Finite Capacity Input Buffers”, *Operations Research*, **46** (1998) S154–S159. [Deterministic scheduling; finite input buffers; polynomial time algorithm; *NP*-complete.]
 49. Hall, N.G., M.E. Posner and C.N. Potts, “Scheduling with Finite Capacity Output Buffers”, *Operations Research*, **46** (1998) S84–S97. [Deterministic scheduling; finite output buffers; polynomial time algorithm; *NP*-complete.]
 50. Hall, N.G., “A Comparison of Inventory Replenishment Heuristics for Minimizing Maximum Storage”, *American Journal of Mathematical and Management Sciences*, to appear. [Inventory theory; min-max; heuristics; worst-case analysis.]
 51. Sriskandarajah, C., N.G. Hall and H. Kamoun, “Scheduling Large Robotic Cells without Buffers”, *Annals of Operations Research*, **76** (1998) 287–321. [Robotic cell; algorithms; computational complexity; traveling salesman problem.]
 52. Ganesharajah, T., N.G. Hall and C. Sriskandarajah, “Design and Operational Issues in AGV-Served Manufacturing Systems”, *Annals of Operations Research*, **76** (1998) 109–154. [Manufacturing; automated guided vehicles; design and operation; survey.]
 53. Hall, N.G., H. Kamoun and C. Sriskandarajah, “Scheduling in Robotic Cells: Classification, Two and Three Machine Cells”, *Operations Research*, **45** (1997) 421–439. [Manufacturing; robotic cell; deterministic scheduling; computational complexity.]
 54. Julien, F.M., M.J. Magazine and N.G. Hall, “Generalized Preemption Models for Single Machine Dynamic Scheduling Problems”, *IIE Transactions*, **29** (1997) 359–372. [Scheduling; preemptions; dispatching rules; heuristics.]
 55. Hall, N.G., M.E. Posner and C.N. Potts, “Preemptive Scheduling with Finite Capacity Input Buffers”, *Annals of Operations Research*, **70** (1997) 399–413. [Preemptive scheduling; finite input buffers; polynomial time algorithm; *NP*-complete.]
 56. Hall, N.G. and C. Sriskandarajah, “A Survey of Machine Scheduling Problems with Blocking and No-Wait in Process”, *Operations Research*, **44** (1996) 510–525. [Machine scheduling; blocking and no-wait; survey; algorithms.]

57. Balakrishnan, P.V. and N.G. Hall, “A Maximin Procedure for the Optimal Insertion Timing of Ad Executions”, *European Journal of Operational Research*, **85** (1995) 368–382. [Marketing; advertising; model; exponential decay.]
58. Hall, N.G. and M.J. Magazine, “Maximizing the Value of a Space Mission”, *European Journal of Operational Research*, **78** (1994) 224–241. [Project selection; scheduling; optimization; computational study.]
59. Stotts, R.C., L.G. Kessler, J.C. Hershey, N.G. Hall and J.G. Gruman, “Awarding Contracts at the National Institutes of Health: a Sensitivity Analysis of the Critical Parameters”, *International Transactions in Operational Research*, **1** (1994) 117–124. [Health care; application; modeling; sensitivity analysis.]
60. Hall, N.G. and R.V. Vohra, “Pareto Optimality and a Class of Set Covering Heuristics”, *Annals of Operations Research*, **43** (1993) 279–284. [Set covering; polynomial time heuristic; worst-case analysis; duality.]
61. Vohra, R.V. and N.G. Hall, “Probabilistic Analysis of the Maximal Covering Location Problem”, *Discrete Applied Mathematics*, **43** (1993) 175–183. [Location covering; crew scheduling; heuristics; probabilistic analysis.]
62. Hall, N.G. and R.V. Vohra, “Towards Equitable Distribution via Proportional Equity Constraints”, *Mathematical Programming*, **58** (1993) 287–294. [Equitable distribution; knapsack problem; maximal flow algorithms; theory.]
63. Hall, N.G., J.C. Hershey, L.G. Kessler and R.C. Stotts, “A Model for Making Project Funding Decisions at The National Cancer Institute”, *Operations Research*, **40** (1992) 1040–1052. [Health care; application; optimization; Delphi method.]
64. Hall, N.G. and D.S. Hochbaum, “The Multicovering Problem”, *European Journal of Operational Research*, **62** (1992) 323–339. [Generalized set covering; optimal algorithm; disjunctive cutting planes; computational study.]
65. Hall, N.G. and W. Kubiak, “Proof of a Conjecture of Schrage about the Completion Time Variance Problem”, *Operations Research Letters*, **10** (1991) 467–472. [Machine scheduling; open complexity; earliness and lateness; optimality conditions.]
66. Hall, N.G. and M.E. Posner, “Earliness-Tardiness Scheduling Problems, I: Weighted Deviation of Completion Times about a Common Due Date”, *Operations Research*, **39** (1991) 836–846. [Deterministic scheduling; nonpreemptive single machine; earliness and lateness; *NP*-complete.]
67. Hall, N.G., W. Kubiak and S.P. Sethi, “Earliness-Tardiness Scheduling Problems, II: Deviation of Completion Times about a Restrictive Common Due Date”, *Operations Research*, **39** (1991) 847–856. [Deterministic scheduling; nonpreemptive single machine; earliness and lateness; *NP*-complete.]

68. Hall, N.G., S.P. Sethi and C. Sriskandarajah, “On the Complexity of Generalized Due Date Scheduling Problems”, *European Journal of Operational Research*, **51** (1991) 100–109. [Machine scheduling; algorithms; due dates; *NP*-complete.]
69. Hall, N.G., “The Inventory Packing Problem”, *Naval Research Logistics*, **36** (1989) 399–418. [Inventory theory; bin packing; heuristics; worst-case analysis.]
70. Hall, N.G. and R.V. Vohra, “Absolute Bounds on Optimal Cost for a Class of Set Covering Problems”, *Zeitschrift für Operations Research*, **33** (1989) 181–192. [Set covering; greedy heuristic; worst-case analysis; circulant matrix.]
71. Hall, N.G., “Separate vs. Joint Replenishment Policies with Maximum Storage Requirement Costs”, *European Journal of Operational Research*, **36** (1988) 180–185. [Inventory theory; joint replenishment; min-max; integer multiples.]
72. Hall, N.G., K.A. Rhee and W. T. Rhee, “A Nonidentical Parallel Processor Scheduling Problem”, *Naval Research Logistics*, **35** (1988) 419–424. [Parallel machine scheduling; makespan; heuristics; error bounds.]
73. Hall, N.G., “A Multi-Item EOQ Model with Inventory Cycle Balancing”, *Naval Research Logistics*, **35** (1988) 319–325. [Inventory theory; economic order quantity; min-max; storage constraint.]
74. Hall, N.G., S. Ghosh, R.D. Kankey, S. Narasimhan and W.T. Rhee, “Bin Packing Problems in One Dimension: Heuristic Solutions and Confidence Intervals”, *Computers & Operations Research*, **15** (1988) 171–177. [Bin packing; probabilistic confidence intervals; heuristics; empirical study.]
75. Hall, N.G. and R.V. Vohra, “An On-Line Assignment Problem with Random Effectiveness and Costly Information”, *Operations Research Letters*, **6** (1987) 163–167. [Assignment problem; on-line processing; expected value; optimal information search.]
76. Gonsalvez, D.J., N.G. Hall, W.T. Rhee and S.P. Siferd, “Heuristic Solutions and Confidence Intervals for the Multicovering Problem”, *European Journal of Operational Research*, **31** (1987) 94–101. [Generalized set covering; probabilistic confidence intervals; heuristics; real world airline problem.]
77. Hall, N.G., “Scheduling Problems with Generalized Due Dates”, *IIE Transactions*, **18** (1986) 220–222. [Machine scheduling; new problem class; algorithms; *NP*-complete.]
78. Hall, N.G., “Production Problems with Deadline Penalties”, *International Journal of Production Research*, **24** (1986) 1383–1396. [Machine scheduling; deadlines; dynamic programming; efficient algorithm.]
79. Hall, N.G. and D.S. Hochbaum, “A Fast Approximation Algorithm for the Multicovering Problem”, *Discrete Applied Mathematics*, **15** (1986) 35–40. [Generalized set covering; polynomial time heuristic; worst-case analysis; attainable bounds.]

80. Hall, N.G. and W.T. Rhee, “Average and Worst-Case Analysis of Heuristics for the Maximum Tardiness Problem”, *European Journal of Operational Research*, **26** (1986) 272–277. [Machine scheduling; worst-case analysis; average-case analysis; nonparametric statistics.]
81. Hall, N.G., “Single and Multiple Processor Models for Minimizing Completion Time Variance”, *Naval Research Logistics Quarterly*, **33** (1986) 49–54. [Machine scheduling; earliness and lateness; efficient algorithm; multiple optimality.]

Other Publications

82. Hall, N.G., “INFORMS Awards Recognize Professional Excellence and Contributions to Society”, *OR/MS Today*, **30** (2003) 56–60.

Citations and Rankings

Google Scholar Citations (8/2015):

- Total citations = **4,286**.
- *h*-index = **30**.

Rankings:

Ranked 13T in research among 1,376 U.S. professors in operations management, in article by Prof. Bin Jiang (3/2008).

Academic Presentations

1. “Research and Educational Opportunities in Project Management”, plenary tutorial, INFORMS National Conference, Nashville, TN, November 2016.
2. “Research and Teaching in Modern Project Management”, Department of Management, Shanghai University, China, April 2016.
3. “What They Don’t Tell You in Graduate School about Academic Careers”, Shanghai University, China, April 2016.
4. “Work Package Sizing and Project Management”, Third International Workshop on Successful Strategies in Supply Chain Management (IWSSSCM3), Hong Kong, January 2016.
5. “Project Evaluation and Selection via Risk-Adjusted Net Present Value”, INFORMS National Conference, Philadelphia, Pennsylvania, November 2015.
6. “Everything is a Project”, INFORMS National Conference, Philadelphia, Pennsylvania, November 2015.
7. “A Research Agenda for Project Management”, 2nd Annual Cincinnati / Dayton INFORMS Fall Technical Symposium, Dayton, Ohio, October 2015.
8. “What They Don’t Tell You in Graduate School about Academic Careers”, University of Electronics, Science and Technology of China, Chengdu, China, September 2015.
9. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, School of Management and Economics, University of Electronics, Science and Technology of China, Chengdu, China, September 2015.
10. “Cooperation and Contract Design in Project Management with Outsourcing”, EURO Conference, Glasgow, Scotland, July 2015.
11. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, Department of Management, Zhejiang University, Hangzhou, China, June 2015.
12. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, Department of Management, Shanghai University, China, May 2015.
13. “An Agenda for Project Management Research”, POMS 26th Annual Conference, Washington, D.C., May 2015.
14. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, Department of Industrial & Operations Engineering, University of Michigan, Ann Arbor, November 2014.
15. “What They Don’t Tell You in Graduate School about Academic Careers”, Department of Industrial & Operations Engineering, University of Michigan, Ann Arbor, November 2014.

16. “Online Production Planning and Information Purchase to Maximize Market Share”, INFORMS National Conference, San Francisco, California, November 2014.
17. “Cooperation and Contract Design in Project Management with Outsourcing”, INFORMS National Conference, San Francisco, California, November 2014.
18. “Selected Topics in Teaching”, invited panelist, New Faculty Colloquium, INFORMS National Conference, San Francisco, California, November 2014.
19. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, Department of Industrial & Systems Engineering, University of Minnesota, Minneapolis, October 2014.
20. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, Department of Logistics and Maritime Studies, Hong Kong Polytechnic University, Hong Kong, June 2014.
21. “Scheduling with Multitasking”, School of Management, Hefei University of Technology, Hefei, China, June 2014.
22. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, School of Management, Hefei University of Technology, Hefei, China, June 2014.
23. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, Antai College of Economics & Management, Shanghai Jiao Tong University, China, June 2014.
24. “What They Don’t Tell You in Graduate School about Academic Careers”, Department of Information and Finance Management, National Chiao Tung University, Taiwan, June 2014.
25. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, Department of Information and Finance Management, National Chiao Tung University, Taiwan, June 2014.
26. “Project Management: A Research Agenda and Resolving Parkinson’s Law”, Department of Decision Sciences, National University of Singapore, June 2014.
27. “An Agenda for Project Management and Scheduling Research”, plenary address, 14th International Conference on Project Management and Scheduling (PMS 2014), Munich, Germany, March 2014.
28. “An Agenda for Project Management and Scheduling Research”, Department of Integrated Systems Engineering, The Ohio State University, Columbus, Ohio, March 2014.
29. “Shippers’ Collaboration in Less-than-truckload Shipment Consolidation”, Fifth POMS-HK International Conference, Hong Kong, January 2014.
30. “Panel discussion: OR, Analytics and the Academic: The Path Forward”, INFORMS National Conference, Minneapolis, Minnesota, October 2013.

31. “Managing Underperformance Risk in Project Portfolio Selection”, INFORMS National Conference, Minneapolis, Minnesota, October 2013.
32. “The Design of Incentive Compatible Mechanisms in Project Management”, INFORMS National Conference, Minneapolis, Minnesota, October 2013.
33. “Dynamic Pricing to Minimize Maximum Regret”, INFORMS National Conference, Minneapolis, Minnesota, October 2013.
34. “Compliance with Environmental Regulation in Project-Based Industries”, INFORMS National Conference, Minneapolis, Minnesota, October 2013.
35. “Motivations, Models and Algorithms for Scheduling with Multitasking”, INFORMS National Conference, Minneapolis, Minnesota, October 2013.
36. “Project Investment Game”, EURO-INFORMS Joint International Conference, Rome, Italy, July 2013.
37. “Compliance with Environmental Regulation in Project-Based Industries”, POMS Conference, Denver, Colorado, May 2013.
38. “Scheduling with Multitasking”, Department of Integrated Systems Engineering, The Ohio State University, Columbus, Ohio, April 2013.
39. “Multiple Projects Management Game”, Department of Health Information and Management and Systems, The Ohio State University, Columbus, Ohio, March 2013.
40. “What They Don’t Tell You in Graduate School about Academic Careers”, Antai College of Economics & Management, Shanghai Jiao Tong University, China, December 2012.
41. “Scheduling with Multitasking”, Antai College of Economics & Management, Shanghai Jiao Tong University, China, December 2012.
42. “What They Don’t Tell You in Graduate School about Academic Careers”, Department of Decision Sciences, National University of Singapore, November 2012.
43. “Scheduling with Multitasking”, Department of Decision Sciences, National University of Singapore, November 2012.
44. “Scheduling with Multitasking”, Department of Industrial Engineering & Operations Research, University of California, Berkeley, California, October 2012.
45. “Project Management under Environmental Regulation”, INFORMS National Conference, Phoenix, Arizona, October 2012.
46. “An Incentive Scheme for Overcoming Parkinson’s Law in Project Management”, INFORMS National Conference, Phoenix, Arizona, October 2012.

47. "Dynamic Pricing with Minimax Regret", INFORMS National Conference, Phoenix, Arizona, October 2012.
48. "Approximate Characteristic Functions for Intractable Cooperative Games in Operations Planning", INFORMS National Conference, Phoenix, Arizona, October 2012.
49. "Online Production Planning and Information Purchase to Maximize On-Time Orders", INFORMS National Conference, Phoenix, Arizona, October 2012.
50. "Scheduling with Multitasking", INFORMS National Conference, Phoenix, Arizona, October 2012.
51. "Finding an Academic Job", Job Placement Service, INFORMS National Conference, Phoenix, Arizona, October 2012.
52. "Scheduling with Multitasking", Department of Logistics and Maritime Studies, Hong Kong Polytechnic University, Hong Kong, July 2012.
53. "A Proposal for Redesign of the FedEx Cup Playoff Series on The PGA TOUR", 25th European Conference on Operational Research, Vilnius, Lithuania, July 2012.
54. "Overview of INFORMS' Organization and Activities", INFORMS International Conference, Beijing, China, June 2012.
55. "Scheduling with Multitasking", Fisher College of Business College Wide Colloquium, The Ohio State University, May 2012.
56. "Project Management: Research Opportunities and Recent Work", Department of Industrial and Systems Engineering, Rensselaer Polytechnic Institute, Troy, NY, May 2012.
57. "What They Don't Tell You in Graduate School about Academic Careers", School of Engineering, Rensselaer Polytechnic Institute, Troy, NY, May 2012.
58. "Approximate Characteristic Functions for Intractable Cooperative Games in Operations Planning", 23rd Annual POMS Conference, Chicago, IL, April 2012.
59. "Project Management: Research Opportunities and Recent Work", Department of Operations, Technology and Information Management, University of North Carolina, Chapel Hill, N.C., November 2011.
60. "What They Don't Tell You in Graduate School about Academic Careers", Kenan-Flagler Business School, University of North Carolina, Chapel Hill, N.C., November 2011.
61. "Approximate Characteristic Functions for Intractable Cooperative Games in Operations Planning", INFORMS National Conference, Charlotte, N.C., November 2011.
62. "Total Cost Control in Project Management via Satisficing", INFORMS National Conference, Charlotte, N.C., November 2011.

63. "Managing Underperformance Risk in Project Portfolio Selection", INFORMS National Conference, Charlotte, N.C., November 2011.
64. "Project Management: Recent Developments and Research Opportunities", plenary address, Taishan Academic Forum, Rizhao, China, July 2011.
65. "Opportunities in Project Management Research and Practice", plenary address, 8th International Conference on Service Systems and Service Management (IEEE-ICSSSM11), Tianjin, China, June 2011.
66. "Teaching Modern Project Management as an MBA Elective", INFORMS National Conference, Austin, Texas, November 2010.
67. "Cooperation and Subcontracting Issues in Project Management", INFORMS National Conference, Austin, Texas, November 2010.
68. "A Proposal for Redesign of the FedEx Cup Playoff Series on The PGA TOUR", INFORMS National Conference, Austin, Texas, November 2010.
69. "Perspectives on Scheduling Research", The Logistics Institute, Northeastern University, Shenyang, China, August 2010.
70. "Capacity Allocation and Scheduling in Supply Chains", The Logistics Institute, Northeastern University, Shenyang, China, August 2010.
71. "An Exercise in Creative Problem Solving and Effective Collaboration", Department of Decision Sciences, National University of Singapore, August 2010.
72. "Capacity Allocation and Sharing Games", POMS 2010 Annual Conference, Vancouver, Canada, May 2010.
73. "Teaching Modern Project Management", INFORMS National Conference, San Diego, California, October 2009.
74. "A Unified Approach to the Measurement of Approximation Error", INFORMS National Conference, San Diego, California, October 2009.
75. "The Coordination of Pricing and Scheduling Decisions", INFORMS National Conference, San Diego, California, October 2009.
76. "The Multiple Projects Management Game: A Creative Thinking and Simulation Exercise", Department of Decision Sciences, National University of Singapore, July 2009.
77. "Performance Prediction and Preselection for Optimization Procedures", Department of Industrial and Systems Engineering, National University of Singapore, July 2009.
78. "The Coordination of Pricing and Scheduling Decisions", Department of Integrated Systems Engineering, The Ohio State University, Columbus, Ohio, May 2009.

79. "Project Management: What, Why and How?", Columbus Chapter, Association of Legal Administrators, Columbus, Ohio, April 2009.
80. "Second Generation Rescheduling Research", School of Management, University of Michigan–Dearborn, Dearborn, Michigan, March 2009.
81. "Auctions for Competitive Capacity Allocation and Scheduling", INFORMS National Conference, Washington, D.C., October 2008.
82. "Field Size Management on the PGA Tour", INFORMS National Conference, Washington, D.C., October 2008.
83. "Teaching Modern Project Management: Strategic Issues", panel discussion, INFORMS National Conference, Washington, D.C., October 2008.
84. "Teaching Modern Project Management: Tactical Issues", panel discussion, INFORMS National Conference, Washington, D.C., October 2008.
85. "Cooperative and Noncooperative Games for Capacity Planning and Scheduling", invited semi-plenary tutorial, INFORMS National Conference, Washington, D.C., October 2008.
86. "Field Size Management on the PGA Tour", 50th Annual Operational Research Society Conference, York, U.K., September 2008.
87. "Capacity Allocation and Scheduling in Supply Chains", Institute of Mathematics, Technical University of Graz, Austria, June 2008.
88. "What They Don't Tell You in Graduate School about Academic Careers", National University of Singapore, May 2008.
89. "Capacity Allocation and Scheduling in Supply Chains", Department of Decision Sciences, National University of Singapore, May 2008.
90. "Capacity Allocation and Scheduling in Supply Chains", Weatherhead School of Management, Case Western Reserve University, Cleveland, Ohio, March 2008.
91. "What They Don't Tell You in Graduate School about Academic Careers", Olin School of Business, Washington University in St. Louis, St. Louis, Missouri, March 2008.
92. "Capacity Allocation and Scheduling in Supply Chains", Olin School of Business, Washington University in St. Louis, St. Louis, Missouri, March 2008.
93. "Online Scheduling with Known Arrival Times", International Symposium on Combinatorial Optimization (CO 2008), University of Warwick, Coventry, U.K., March 2008.
94. "Managing Multiple Projects", Breakfast Club Executive Education Series, Fisher College of Business, The Ohio State University, Columbus, Ohio, December 2007.

95. "Capacity Allocation and Scheduling in Supply Chains", Stern School of Business, New York University, New York City, November 2007.
96. "The Coordination of Pricing and Scheduling Decisions", INFORMS National Conference, Seattle, Washington, November 2007.
97. "Noncooperative Scheduling Games with Auctions", INFORMS National Conference, Seattle, Washington, November 2007.
98. "The Coordination of Pricing and Production Decisions", invited semi-plenary tutorial, INFORMS National Conference, Seattle, Washington, November 2007.
99. "Robust Pricing to Minimize Maximum Regret", INFORMS National Conference, Seattle, Washington, November 2007.
100. "Capacity Allocation and Scheduling in Supply Chains", INFORMS National Conference, Seattle, Washington, November 2007.
101. "The Coordination of Pricing and Production Decisions", Department of Integrated Systems Engineering, The Ohio State University, Columbus, Ohio, October 2007.
102. "The Coordination of Pricing and Scheduling Decisions", MSOM Conference, Beijing, China, June 2007.
103. "The Coordination of Pricing and Scheduling Decisions", Department of Industrial Engineering, The Ohio State University, Columbus, Ohio, May 2007.
104. "The Coordination of Pricing and Scheduling Decisions", DRO/IEOR seminar series, Columbia University, New York City, March 2007.
105. "Capacity Allocation and Scheduling in Supply Chains", Sixth Annual Supply Chain and Logistics Engineering (SCALE) Conference, Gainesville, Florida, February 2007.
106. "The Coordination of Pricing and Production Decisions", invited presentation, Industrial Optimization Seminar, Fields Institute, Toronto, Canada, December 2006.
107. "Online Scheduling with Known Arrival Times", DeGroote School of Business, McMaster University, Hamilton, Ontario, Canada, December 2006.
108. "Responding to Excess Demand in a Two Stage Supply Chain", INFORMS National Conference, Pittsburgh, Pennsylvania, November 2006.
109. "Online Scheduling with Known Arrival Times", INFORMS National Conference, Pittsburgh, Pennsylvania, November 2006.
110. "Performance Prediction and Preselection for Solution Procedures", Modelling, Optimization and Simulation Technologies Workshop, The Ohio State University, Columbus, November 2006.

111. "Research Opportunities in Pricing", Modelling, Optimization and Simulation Technologies Workshop, The Ohio State University, Columbus, November 2006.
112. "Rescheduling for Job Unavailability", INFORMS International Conference, Hong Kong, June 2006.
113. "Second Generation Rescheduling Research", Sander Flaum Thought Leaders Series, Fisher College of Business, The Ohio State University, Columbus, Ohio, February 2006.
114. "Rescheduling for Multiple New Orders", INFORMS National Conference, San Francisco, California, November 2005.
115. "Performance Prediction and Preselection for Optimization Procedures", INFORMS National Conference, San Francisco, California, November 2005.
116. "Rescheduling for Job Unavailability", INFORMS National Conference, San Francisco, California, November 2005.
117. "Rescheduling for Job Unavailability", Department of Industrial, Welding and Systems Engineering, The Ohio State University, Columbus, October 2005.
118. "What They Don't Tell You in Graduate School about Academic Careers", School of Management, University of Texas at Dallas, September 2005.
119. "Data Generation and Solution Procedure Preselection for Optimization Problems", School of Management, University of Texas at Dallas, September 2005.
120. "Supply Chain Scheduling", invited plenary tutorial, 2nd Multidisciplinary International Conference on Scheduling: Theory and Applications (MISTA 2005), New York, July 2005.
121. "The Generation of Experimental Data for Scheduling and other Optimization Problems", invited plenary tutorial, IFORS Conference, Honolulu, Hawaii, July 2005.
122. "Rescheduling for Multiple New Orders", IFORS Conference, Honolulu, Hawaii, July 2005.
123. "Supply Chain Scheduling", Department of Industrial and Systems Engineering, The Ohio State University, May 2005.
124. "Supply Chain Scheduling", invited plenary tutorial, 4th Annual Florida Supply Chain Conference, Cocoa Beach, Florida, February 2005.
125. "Optimization Methods for Rescheduling", Department of Systems Engineering & Engineering Management, Chinese University of Hong Kong, December 2004.
126. "Optimization Methods for Rescheduling", Department of Logistics, The Hong Kong Polytechnic University, November 2004.
127. "What They Don't Tell You in Graduate School about Academic Careers", Department of Logistics, The Hong Kong Polytechnic University, November 2004.

128. "Supply Chain Scheduling", Department of Industrial Engineering & Engineering Management, Hong Kong University of Science & Technology, November 2004.
129. "Optimization Methods for Rescheduling", Department of Decision Sciences and Engineering Systems, Rensselaer Polytechnic Institute, Troy, New York, November 2004.
130. "What They Don't Tell You in Graduate School about Academic Careers", School of Engineering, Rensselaer Polytechnic Institute, Troy, New York, November 2004.
131. "Supply Chain Scheduling: Distribution Systems", INFORMS National Conference, Denver, Colorado, October 2004.
132. "Optimization Methods for Rescheduling", invited semi-plenary tutorial, INFORMS National Conference, Denver, Colorado, October 2004.
133. "What They Don't Tell You in Graduate School about Academic Careers", Ph.D. Seminar, Fisher College of Business, The Ohio State University, April 2004.
134. "Supply Chain Scheduling", Weatherhead School of Management, Case Western Reserve University, Cleveland, Ohio, April 2004.
135. "Rescheduling for Job Unavailability", Combinatorial Optimisation 2004 Conference, Lancaster, U.K., March 2004.
136. "Supply Chain Scheduling", Operations Research Seminar Series, Pennsylvania State University, State College, Pennsylvania, March 2004.
137. "Supply Chain Scheduling: Distribution Systems", National Science Foundation Workshop on Supply Chain Management, Gainesville, Florida, February 2004.
138. "The Coordination of Scheduling and Batch Deliveries", INFORMS National Conference, Atlanta, October 2003.
139. "Profit Scheduling", INFORMS National Conference, Atlanta, October 2003.
140. "Rescheduling for New Orders", International Symposium on Mathematical Programming, Copenhagen, Denmark, August 2003.
141. "The Coordination of Scheduling and Batch Deliveries", 1st Multidisciplinary International Conference on Scheduling: Theory and Applications (MISTA 2003), Nottingham, U.K., August 2003.
142. "Empty Vehicle Trips on a Circular Flow Path", MSOM National Conference, Los Angeles, California, June 2003.
143. "Supply Chain Scheduling: Assembly Systems", Supply Chain Optimization Conference, Gainesville, Florida, February 2003.

144. "Supply Chain Scheduling: Assembly Systems", School of Management, University of Texas at Dallas, February 2003.
145. "Supply Chain Scheduling", invited semi-plenary tutorial, INFORMS National Conference, San Jose, California, November 2002.
146. "The Value of Progress Information in Supply Chains", INFORMS National Conference, San Jose, California, November 2002.
147. "A Priori Evaluation of Solution Procedures for Optimization Problems", INFORMS National Conference, San Jose, California, November 2002.
148. "The Importance of Empty Vehicle Travel in a Circular Path AGV Layout", INFORMS National Conference, San Jose, California, November 2002.
149. "Minimizing Strategic and Operational Costs in Facility Layouts", INFORMS National Conference, San Jose, California, November 2002.
150. "Supply Chain Scheduling", Department of Industrial, Welding & Systems Engineering, The Ohio State University, Columbus, Ohio, June 2002.
151. "Supply Chain Scheduling", invited keynote address, International Workshop on Decision Making under Uncertainty, Beijing, China, May 2002.
152. "Minimizing Strategic and Operational Costs in Facility Layout Planning", Department of Mathematical Sciences, Tsinghua University, Beijing, China, May 2002.
153. "Supply Chain Scheduling", Department of Decision & Information Technologies, Smith School of Business, University of Maryland, May 2002.
154. "Supply Chain Scheduling", Department of Mathematics and Computer Science, University of Osnabrück, Germany, April 2002.
155. "Minimizing Strategic and Operational Costs in Facility Layouts", Combinatorial Optimization (CO '02) Conference, Paris, France, April 2002.
156. "Supply Chain Scheduling", invited keynote address, Combinatorial Optimization (CO '02) Conference, Paris, France, April 2002.
157. "Minimizing Strategic and Operational Costs in Facility Layout Planning", poster presentation, National Science Foundation Engineering Grantees Conference, San Juan, Puerto Rico, January 2002.
158. "Supply Chain Scheduling", Faculty of Business, McMaster University, Hamilton, Ontario, Canada, November 2001.
159. "Supply Chain Scheduling", INFORMS National Conference, Miami Beach, Florida, November 2001.

160. "Strategies for Selecting Optimization Approaches", INFORMS National Conference, Miami Beach, Florida, November 2001.
161. "Models for Minimally Disruptive Scheduling", INFORMS National Conference, Miami Beach, Florida, November 2001.
162. "Supply Chain Scheduling: Assembly Systems", European Operational Research Conference (EURO 2001), Rotterdam, Netherlands, July 2001.
163. "Sequence Coordination in Supply Chains", Fifth Workshop on Models and Algorithms for Planning and Scheduling Problems, Aussois, France, June 2001.
164. "An Improved Method for Political Apportionment", Department of Management Sciences, The Ohio State University, Columbus, Ohio, May 2001.
165. "A Generalized Parametric Divisor Method for Political Apportionment", Warwick Business School, University of Warwick, Coventry, U.K., December 2000.
166. "A Generalized Parametric Divisor Method for Political Apportionment", Faculty of Mathematical Studies, University of Southampton, U.K., November 2000.
167. "Sensitivity Analysis for Scheduling Problems", invited semi-plenary tutorial, INFORMS National Conference, San Antonio, Texas, November 2000.
168. "No-Wait Shops With Lot Streaming", INFORMS National Conference, San Antonio, Texas, November 2000.
169. "An Agenda for Scheduling Research", invited panelist, INFORMS National Conference, San Antonio, Texas, November 2000.
170. "Manufacturing Logistics", invited panelist, INFORMS National Conference, San Antonio, Texas, November 2000.
171. "Schedule Coordination Problems in Assembly Systems", INFORMS National Conference, San Antonio, Texas, November 2000.
172. "Teaching OR/MS", invited panelist, Doctoral Student Colloquium, INFORMS National Conference, San Antonio, Texas, November 2000.
173. "Supply Chain Scheduling", invited plenary presentation, International Workshop on Optimization with High Technology Applications, Hong Kong, October 2000.
174. "What They Don't Tell You in Graduate School about Academic Careers", Department of Systems Engineering and Engineering Management, Chinese University of Hong Kong, October 2000.
175. "Sensitivity Analysis for Scheduling Problems", Department of Industrial Engineering and Engineering Management, Hong Kong University of Science and Technology, October 2000.

176. "Sensitivity Analysis for Scheduling Problems", Department of Management Sciences, The Ohio State University, August 2000.
177. "Sensitivity Analysis for Scheduling Problems", International Symposium on Mathematical Programming, Atlanta, Georgia, August 2000.
178. "Supply Chain Scheduling: Batching and Delivery", International Symposium on Mathematical Programming, Atlanta, Georgia, August 2000.
179. "Numerical Experiments on Generalizing Divisor Method for the Apportionment Problem", Fifth Conference of the Association of Asian-Pacific Operations Research Societies, Singapore, July 2000.
180. "Sensitivity Analysis for Scheduling Problems", MSOM National Conference, Ann Arbor, Michigan, June 2000.
181. "Supply Chain Scheduling: Batching and Delivery", INFORMS National Conference, Salt Lake City, Utah, May 2000.
182. "Supply Chain Scheduling: Sequence Coordination", INFORMS National Conference, Salt Lake City, Utah, May 2000.
183. "Supply Chain Scheduling: Batching and Delivery", plenary address, 7th International Workshop on Project Management and Scheduling, Osnabrück, Germany, April 2000.
184. "What They Don't Tell You in Graduate School about Academic Careers", RUTCOR, Rutgers University, Piscataway, N.J., April 2000.
185. "Generating Experimental Data for Computational Testing", Institute for Systems Research, University of Maryland, College Park, March 2000.
186. "Supply Chain Scheduling: Batching and Delivery", Stern School of Business, New York University, New York City, March 2000.
187. "Generating Experimental Data for Computational Testing", RUTCOR, Rutgers University, Piscataway, N.J., December 1999.
188. "Generating Experimental Data for Computational Testing", Department of Industrial, Manufacturing and Systems Engineering, Lehigh University, Bethlehem, Pennsylvania, November 1999.
189. "What They Don't Tell You in Graduate School about Academic Careers", INFORMS Student Chapter, University of Pennsylvania, Philadelphia, October 1999.
190. "Generating Experimental Data for Computational Testing", Department of Systems Engineering, University of Pennsylvania, Philadelphia, September 1999.
191. "Supply Chain Scheduling: Batching and Delivery", Operations Management Summer Camp, M.I.T., June 1999.

192. "Supply Chain Scheduling: Batching and Delivery", Department of Management Sciences, The Ohio State University, June 1999.
193. "Scheduling and Lot Streaming in Two-Machine No-Wait Openshops", Optimization Days, Montreal, Canada, May 1999.
194. "Generating Experimental Data for Scheduling Problems", invited semi-plenary tutorial, INFORMS National Conference, Cincinnati, Ohio, May 1999.
195. "Lot Streaming and Scheduling in Two-Machine No-Wait Openshops", INFORMS National Conference, Cincinnati, Ohio, May 1999.
196. "On Generalizing Divisor Method for the Apportionment Problem", 16th Mathematical Statistics Institute Seminar, Tokyo, Japan, April 1999.
197. "Generating Experimental Data for Machine Scheduling Problems", Department of Mechanical and Systems Engineering, Kyoto Institute of Technology, Kyoto, Japan, December 1998.
198. "Generating Experimental Data for Machine Scheduling Problems", École des Sciences Économiques et de Gestion, Sfax, Tunisia, November 1998.
199. "Scheduling With Fixed Delivery Dates", École des Sciences Économiques et de Gestion, Sfax, Tunisia, November 1998.
200. "Scheduling With Fixed Delivery Dates", Dipartimento di Automazione e Informatica, Università Roma Tre, Rome, Italy, October 1998.
201. "Generating Experimental Data for Machine Scheduling Problems", Dipartimento di Informatica e Sistemistica, Università di Roma "La Sapienza", Rome, Italy, October 1998.
202. "Scheduling With Fixed Delivery Dates", Department of Industrial and Operations Engineering, University of Michigan, October 1998.
203. "Generating Experimental Data for Machine Scheduling Problems", School of Management, University of Texas at Dallas, September 1998.
204. "Scheduling With Fixed Delivery Dates", 16th European Conference on Operational Research, Brussels, Belgium, July 1998.
205. "Periodic Shop Scheduling Problems", 16th European Conference on Operational Research, Brussels, Belgium, July 1998.
206. "Generating Experimental Data for Combinatorial Optimization Problems", 16th European Conference on Operational Research, Brussels, Belgium, July 1998.
207. "Scheduling Large Robotic Cells", CORS/INFORMS National Conference, Montreal, April 1998.

208. "Sensitivity Analysis for Scheduling Problems", CORS/INFORMS National Conference, Montreal, April 1998.
209. "Generating Experimental Data for Scheduling Problems", CORS/INFORMS National Conference, Montreal, April 1998.
210. "On Generalizing Divisor Method for the Apportionment Problem", Asia-Pacific Operations Research Society, Melbourne, Australia, December 1997.
211. "Generating Experimental Data for Combinatorial Optimization Problems", Econometric Institute, Erasmus University, Rotterdam, Netherlands, November 1997.
212. "Periodic Shop Scheduling Problems", INFORMS National Conference, Dallas, October 1997.
213. "Generating Experimental Data for Scheduling Problems", INFORMS National Conference, Dallas, October 1997.
214. "Scheduling With Fixed Delivery Dates", INFORMS National Conference, Dallas, October 1997.
215. "A General Parametric Divisor Method for Apportionment", International Symposium on Mathematical Programming, Lausanne, Switzerland, August 1997.
216. "Scheduling in Modern Manufacturing Systems", Department of Industrial, Welding and Systems Engineering, The Ohio State University, Columbus, May 1997.
217. "Generating Experimental Data for Scheduling Problems", Department of Quantitative Analysis and Operations Management, University of Cincinnati, Cincinnati, Ohio, May 1997.
218. "On a Generalizing Divisor Method for the Apportionment Problem", Operations Research Society of Japan, Fukuoka, Japan, April 1997.
219. "Parallel Machine Scheduling With a Common Server", Fifth International Workshop on Project Management and Scheduling, Cambridge, U.K., April 1997.
220. "Decomposing an AGV-Served Flowshop: a Heuristic Approach", Optimization Days, Montreal, May 1996.
221. "Minimizing Cycle Time in a Blocking Flowshop", INFORMS National Conference, Washington, D.C., May 1996.
222. "Preemptive Scheduling with Finite Capacity Input Buffers", INFORMS National Conference, Washington, D.C., May 1996.
223. "Sequencing and Control Problems in AGV Networks", INFORMS National Conference, Washington, D.C., May 1996.

224. "Parallel Machine Scheduling with a Common Server", Fifth International Workshop on Project Management and Scheduling, Poznan, Poland, April 1996.
225. "Scheduling in Robotic Cells", Department of Mathematical Engineering and Information Physics, University of Tokyo, Tokyo, Japan, December 1995.
226. "Scheduling in Robotic Cells", Department of Mathematical and Systems Engineering, University of Kyoto, Kyoto, Japan, December 1995.
227. "A Model for Making Project Funding Decisions at The National Cancer Institute", Graduate School of Policy Science, Saitama University, Urawa, Japan, December 1995.
228. "Scheduling in Robotic Cells", Industrial Engineering Society of Japan, Tokyo, Japan, November 1995.
229. "A Decision Support System for Funding Projects at The National Cancer Institute", Graduate School of International Management, International University of Japan, Urasa, Japan, November 1995.
230. "Scheduling Large Robotic Cells", INFORMS National Conference, New Orleans, October 1995.
231. "Minimizing Cycle Time in a Blocking Flowshop", Department of Systems Engineering and Engineering Management, Chinese University of Hong Kong, October 1995.
232. "Cost and Delivery Performance at O.M. Scott & Sons Company", O.M. Scott & Sons Company, Marysville, Ohio, October 1995.
233. "Maximizing Output on a Modern Assembly Line", Department of Industrial and Systems Engineering, The Ohio State University, Columbus, May 1995.
234. "Scheduling in Robotic Cells", School of Mathematics, Statistics and Computing, University of Greenwich, London, December 1994.
235. "Scheduling with Finite Capacity Buffers", Faculty of Management, University of Toronto, November 1994.
236. "Scheduling with Finite Capacity Input Buffers", ORSA/TIMS National Conference, Detroit, October 1994.
237. "Scheduling in Robotic Cells", invited semi-plenary tutorial, ORSA/TIMS National Conference, Detroit, October 1994.
238. "Parallel Machine Scheduling with a Robot Server", ORSA/TIMS National Conference, Detroit, October 1994.
239. "Inequalities and Facets for a Job Shop Problem", ORSA/TIMS National Conference, Detroit, October 1994.

240. "Scheduling in Robotic Cells", International Symposium on Mathematical Programming, Ann Arbor, Michigan, August 1994.
241. "Parallel Machine Scheduling with a Common Server", International Symposium on Mathematical Programming, Ann Arbor, Michigan, August 1994.
242. "Scheduling with Finite Capacity Output Buffers", International Symposium on Mathematical Programming, Ann Arbor, Michigan, August 1994.
243. "Scheduling with Finite Capacity Output Buffers", Fourth International Workshop on Project Management and Scheduling, Leuven, Belgium, July 1994.
244. "Scheduling in Modern Manufacturing Systems", Department of Management Sciences, University of Waterloo, Waterloo, Ontario, June 1994.
245. "Scheduling in Robotic Cells: Open Problems", CORS Scheduling Workshop, Montreal, May 1994.
246. "Minimizing Maximum Lateness with Output Buffers", TIMS/ORSA National Conference, Boston, April 1994.
247. "A New Formulation and Algorithm for Several Permutation Flowshop Problems", TIMS/ORSA National Conference, Boston, April 1994.
248. "Scheduling in Robotic Cells: Heuristics and Cell Design", TIMS/ORSA National Conference, Boston, April 1994.
249. "Scheduling with Finite Capacity Buffers, I: Output Buffers", TIMS/ORSA National Conference, Boston, April 1994.
250. "Production Planning with the Housebuilding Game", The Ohio State University ORSA Student Roundtable, Columbus, February 1994.
251. "A Decision Model for The National Cancer Institute", Faculty of Mathematical Studies, University of Southampton, U.K., December 1993.
252. "Scheduling in Robotic Cells", Department of Mathematics and Computing Science, Eindhoven University of Technology, Eindhoven, Netherlands, November 1993.
253. "Scheduling in Robotic Cells", Department of Mechanical Engineering, University of Twente, Enschede, Netherlands, November 1993.
254. "Scheduling in Robotic Cells", Department of Industrial and Systems Engineering, The Ohio State University, Columbus, November 1993.
255. "An Optimization Model for Awarding Contracts at The National Institutes of Health", IFORS 93, XIII World Conference on Operations Research, Lisbon, Portugal, July 1993.

256. "Algorithms and Complexity Results for Broadcasting Problems with General Transmission Times", Third International Workshop on Models and Algorithms for Planning and Scheduling Problems, Lake Como, Italy, June 1993.
257. "Minimizing the Weighted Number of Tardy Jobs", TIMS/ORSA National Conference, Chicago, May 1993.
258. "Algorithms and Complexity Results for Broadcasting Problems with General Transmission Times", TIMS/ORSA National Conference, Chicago, May 1993.
259. "Scheduling in a Robotic Cell: Algorithms and Complexity", TIMS/ORSA National Conference, Chicago, May 1993.
260. "Algorithms and Complexity Results for Broadcasting Problems with General Transmission Times", Kellogg Graduate School of Management, Northwestern University, April 1993.
261. "Algorithms and Complexity Results for Broadcasting Problems With General Transmission Times", Department of Industrial Engineering, University of Toronto, December 1992.
262. "A Model for Making Project Funding Decisions at The National Cancer Institute", Warwick Business School, University of Warwick, Coventry, U.K., July 1992.
263. "Minimization of Earliness and Tardiness with Asymmetric Weights about a Common Due Date", CO92 Conference, Oxford, U.K., July 1992.
264. "Maximizing the Value of a Job Shop", CORS National Conference, Toronto, June 1992.
265. "No-Wait Scheduling Models", CORS Scheduling Workshop, Toronto, May 1992.
266. "Synthesis of Broadcast Networks to Meet Scheduling Objectives", CORS Scheduling Workshop, Toronto, May 1992.
267. "Preempt-Repeat Models for On-Line Scheduling Problems", CORS Scheduling Workshop, Toronto, May 1992.
268. "Machine Scheduling Problems with No-Wait in Process", Optimization Days, Montreal, May 1992.
269. "A Decision Support System for Funding Projects at The National Cancer Institute", TIMS/ORSA National Conference, Orlando, April 1992.
270. "Maximizing the Value of a Space Mission", TIMS/ORSA National Conference, Orlando, April 1992.
271. "Maximizing the Value of a Job Shop", TIMS/ORSA National Conference, Orlando, April 1992.
272. "Machine Scheduling Problems with No-Wait in Process", TIMS/ORSA National Conference, Orlando, April 1992.

273. "Preempt-Repeat Models for On-Line Scheduling Problems", TIMS/ORSA National Conference, Orlando, April 1992.
274. "A Decision Support System for Funding Projects at The National Cancer Institute", Department of Industrial and Systems Engineering, The Ohio State University, April 1992.
275. "A Decision Support System for Funding Projects at The National Cancer Institute", Faculty of Administration, University of Ottawa, March 1992.
276. "A Decision Support System for Funding Projects at The National Cancer Institute", The National Cancer Institute, Bethesda, Maryland, September 1991.
277. "Maximizing the Value of a Space Mission", International Symposium on Mathematical Programming, Amsterdam, Netherlands, August 1991.
278. "Maximizing the Value of a Space Mission", London Business School, U.K., July 1991.
279. "Maximizing the Value of a Space Mission", Department of Industrial Engineering, University of Toronto, June 1991.
280. "Maximizing the Value of a Space Mission", Graduate School of Business, University of Chicago, June 1991.
281. "Maximizing the Value of a Space Mission", GERAD, University of Montreal, March 1991.
282. "Recent Developments in Earliness-Tardiness Scheduling", Department of Civil Engineering & Operations Research, Princeton University, Princeton, N.J., November 1990.
283. "Proof of a Conjecture of Schrage about the Completion Time Variance Problem", ORSA/TIMS National Conference, Philadelphia, October 1990.
284. "The Earliness-Tardiness Scheduling Problem with Asymmetric Weights", Second International Workshop on Project Management and Scheduling, Compiègne, France, June 1990.
285. "The Earliness-Tardiness Scheduling Problem with Asymmetric Weights", TIMS/ORSA National Conference, Las Vegas, May 1990.
286. "Recent Developments in Earliness-Tardiness Scheduling", School of Business Administration, University of Michigan, February 1990.
287. "Recent Developments in Earliness-Tardiness Scheduling", The Wharton School, University of Pennsylvania, Philadelphia, October 1989.
288. "Deviation of Completion Times about a Restrictive Common Due Date", ORSA/TIMS National Conference, New York City, October 1989.
289. "Recent Developments in Earliness-Tardiness Scheduling", Department of Industrial and Systems Engineering, The Ohio State University, Columbus, September 1989.

290. "Recent Developments in Earliness-Tardiness Scheduling", University of Wisconsin, Milwaukee, June 1989.
291. "Recent Developments in Earliness-Tardiness Scheduling", GERAD, University of Montreal, June 1989.
292. "Inventory Cycle Balancing and Combinatorial Optimization Problems", Department of Management Sciences, University of Waterloo, Waterloo, Ontario, June 1989.
293. "Recently Solved and Open Problems in Deterministic Machine Scheduling", CORS Scheduling Workshop, Toronto, June 1989.
294. "Minimizing Weighted Earliness Plus Tardiness Around a Common Due Date", CORS/TIMS/ORSA National Conference, Vancouver, B.C., May 1989.
295. "Recent Developments in Earliness-Tardiness Scheduling", University of Washington, Seattle, May 1989.
296. "Generalized Due Date Scheduling Problems: Complexity and Algorithms", The Wharton School, University of Pennsylvania, Philadelphia, November 1988.
297. "The Timing of Information Release to Maximize Minimum Exposure", ORSA/TIMS National Conference, Denver, October 1988.
298. "Generalized Due Date Scheduling Problems: Complexity", ORSA/TIMS National Conference, Denver, October 1988.
299. "The Optimal Timing of Information to Maximize Minimum Exposure", TIMS International Conference, Paris, France, July 1988.
300. "The Inventory Packing Problem", Multi-Echelon Inventory Systems Conference, Ann Arbor, Michigan, June 1988.
301. "Improved Performance Bounds for Inventory Packing", TIMS/ORSA National Conference, Washington, D.C., April 1988.
302. "Optimal Information Search in an On-Line Assignment Problem", ORSA/TIMS National Conference, St. Louis, October 1987.
303. "Discrete Time Inventory Replenishment to Minimize Maximum Storage", ORSA/TIMS National Conference, St. Louis, October 1987.
304. "Worst Case and Probabilistic Analysis of Some Heuristics for the Maximal Covering Location Problem", TIMS/ORSA National Conference, New Orleans, May 1987.
305. "The Inventory Packing Problem", TIMS/ORSA National Conference, New Orleans, May 1987.

306. "Crew Scheduling Problems with Proportional Equity Constraints", TIMS/ORSA National Conference, New Orleans, May 1987.
307. "Inventory Cycle Balancing and Applications", Graduate School of Business, Harvard University, February 1987.
308. "Bounds and Heuristics for the Maximal Covering Location Problem", Regional Science Association National Meeting, Columbus, Ohio, November 1986.
309. "Absolute Bounds on Heuristic Cost for a Class of Set Covering Problems", ORSA/TIMS National Conference, Miami, October 1986.
310. "Abandoning Joint Replenishment in the Presence of Peak Inventory Costs", ORSA/TIMS National Conference, Miami, October 1986.
311. "Pareto Optimality and a Class of Set Covering Heuristics", ORSA/TIMS National Conference, Miami, October 1986.
312. "Heuristics for the Maximal Covering Location Problem", S.E. TIMS Conference, Myrtle Beach, S.C., October 1986.
313. "Infinite Horizon EOQ Problems with Inventory Cycle Balancing", TIMS/ORSA National Conference, Los Angeles, April 1986.
314. "Maximal Flow in a Network with Proportional Equity Constraints", TIMS/ORSA National Conference, Los Angeles, April 1986.
315. "Deterministic Inventory Models with Inventory Cycle Balancing", The Fuqua School of Business, Duke University, Durham, N.C., March 1986.
316. "The Complexity of Scheduling Problems with Generalized Due Dates", ORSA/TIMS National Conference, Atlanta, November 1985.
317. "Heuristic Solutions and Confidence Intervals for the Multicovering Problem", ORSA/TIMS National Conference, Atlanta, November 1985.
318. "Closed Form Solutions for the Two Item Joint Replenishment Problem", ORSA/TIMS National Conference, Atlanta, November 1985.
319. "Confidence Intervals for Optimal Solutions to Bin Packing Problems", TIMS/ORSA National Conference, Boston, April 1985.
320. "Empirical Implications of Worst-Case Performance Bounds for the Single-Machine Maximum Tardiness Problem", ORSA/TIMS National Conference, Dallas, November 1984.
321. "Single and Multiple Processor Models for Minimizing Completion Time Variance", ORSA/TIMS National Conference, Dallas, November 1984.

322. "Optimal Due Dates for a Single Machine Scheduling Problem", TIMS/ORSA National Conference, San Francisco, May 1984.
323. "Worst Case Analysis of a Primal-Dual Heuristic for Several Generalized Set Covering Problems", ORSA/TIMS National Conference, Orlando, November 1983.
324. "An Optimal Algorithm for the Generalized Set Covering Problem", ORSA/TIMS National Conference, Orlando, November 1983.
325. "Solutions for the Multicovering Problem", University of Calgary, Alberta, Canada, April 1983.
326. "Solutions for the Multicovering Problem", University of Rochester, Rochester, N.Y., April 1983.
327. "Solutions for the Multicovering Problem", The Ohio State University, Columbus, March 1983.
328. "Solutions for the Multicovering Problem", Northeastern University, Boston, March 1983.
329. "Solutions for the Multicovering Problem", University of Massachusetts, Boston, February 1983.

Research Grants

1. “Improved Pricing and Production Strategies for Middle Market Companies”, National Center for the Middle Market, Fisher College of Business, The Ohio State University, July 2013 (\$34,700).
2. “Scheduling with Energy Considerations for Middle Market Companies”, National Center for the Middle Market, Fisher College of Business, The Ohio State University, February 2012 (\$30,500).
3. “Coordinating Pricing and Capacity Allocation with Scheduling Decisions”, Fisher College of Business, The Ohio State University, May 2007 (\$15,700).
4. “Analysis of Approximate Planning Horizons”, Mathematical Sciences Programme, Engineering and Physical Sciences Research Council (United Kingdom), December 2005 (\$18,200).
5. “Supply Chain Scheduling”, Manufacturing Enterprise Systems Program, Division of Design, Manufacture and Industrial Innovation, National Science Foundation, August 2004 (\$150,000).
6. “Mathematical Models for Rescheduling”, Fisher College of Business, The Ohio State University, May 2004 (\$13,500).
7. “Mathematical Models for Rescheduling in Manufacturing Systems”, Mathematics Programme, Engineering and Physical Sciences Research Council (United Kingdom), May 2002 (\$14,900).
8. “Supply Chain Scheduling”, Fisher College of Business, The Ohio State University, March 2001 (\$900).
9. “Improved Measures for Evaluating Facility Layouts”, Design and Integration Engineering Program, Division of Design, Manufacture and Industrial Innovation, National Science Foundation, September 1999 (\$367,400).
10. “Improving Facility Layout Planning Through Machine Scheduling”, Fisher College of Business, The Ohio State University, May 1999 (\$18,800).
11. “Supply Chain Scheduling”, Fisher College of Business, The Ohio State University, April 1999 (\$600).
12. “Issues in Supply Chain Coordination”, Office of International Studies, The Ohio State University, December 1998 (\$1,000).
13. “Coordination Issues in Supply Chain Management”, Fisher College of Business, The Ohio State University, June 1998 (\$20,000).
14. “Coordinating Scheduling Decisions in Supply Chains”, Fisher College of Business, The Ohio State University, March 1998 (\$2,000).

15. "Two Applications of New Computational Proof Techniques", Fisher College of Business, The Ohio State University, June 1997 (\$16,300).
16. "New Proof Techniques in Manufacturing Systems", Fisher College of Business, The Ohio State University, March 1997 (\$1,200).
17. "Japan - U.S. Joint Research on Risk Management of the Social System During the Emergency Period", Japanese Ministry of Education, December 1996 (\$105,000).
18. "Issues in the Theory and Practice of Modern Manufacturing Systems", Fisher College of Business, The Ohio State University, April 1996 (\$15,000).
19. "Scheduling in Modern Manufacturing Systems", NATO International Scientific Exchange Programme, December 1995 (\$7,300).
20. "Material Handling and Tool Management in Modern Manufacturing Systems", Fisher College of Business, The Ohio State University, June 1995 (\$14,000).
21. "Computer-Based Scheduling to Improve Cost and Delivery Performance", O.M. Scott & Sons Company, Marysville, Ohio, June 1995 (\$10,000).
22. "Improving the Efficiency of Bufferless Assembly Lines", Fisher College of Business, The Ohio State University, February 1995 (\$1,900).
23. "New Formulations and Data Generation Methods for Scheduling Problems", Fisher College of Business, The Ohio State University, June 1994 (\$15,000).
24. "Scheduling in Modern Manufacturing Systems", Fisher College of Business, The Ohio State University, June 1994 (\$2,700).
25. "Analysis of Two Scheduling Problems", College of Business, The Ohio State University, May 1992 (\$12,000).
26. "A Model for Making Project Funding Decisions", The National Cancer Institute, National Institutes of Health, Bethesda, Maryland, June 1991 (\$20,000).
27. "Machine Scheduling Problems with Earliness and Lateness Costs", College of Business, The Ohio State University, May 1990 (\$5,800).
28. "Applications of Operations Research to Manufacturing Systems", A.T. & T. Network Systems, Columbus, Ohio, October 1989 (\$92,800).
29. Research Initiation Grant, College of Business, The Ohio State University, December 1983 (\$5,000).
30. Graduate Research Support Grant, Institute for Business and Economic Research, Graduate School of Business Administration, University of California, Berkeley, July 1982 (\$8,500).

International Research Activities

1. May 2008, June – August 2009, June – August 2010: Visiting Professor, Department of Decision Sciences, National University of Singapore.
2. June – July 2006: Visiting Professor, Department of Industrial Engineering & Engineering Management, Hong Kong University of Science and Technology.
3. December 2004, June 2006, May 2008, August 2010, June 2011: Visiting Professor, Department of Systems Engineering & Engineering Management, Chinese University of Hong Kong.
4. November 2004, July 2006, August 2010, June 2011: Visiting Professor, Department of Logistics, Hong Kong Polytechnic University.
5. From May 2002: Fellow, Center for Decision Making with Uncertainty, Chinese Academy of Sciences, Beijing, China.
6. November 2000, July 2001, July 2002, July 2003, September 2004: Visiting Academic, Faculty of Mathematical Studies, University of Southampton, U.K.
7. October - December 1995: Visiting Fellow, Graduate School of Policy Science, Saitama University, Urawa, Japan.
8. Presented 34 papers at international conferences in 16 countries: Australia, Austria, Belgium, Canada, China, Denmark, France, Germany, Hong Kong, Italy, Japan, Netherlands, Poland, Portugal, Switzerland, United Kingdom.
9. Presented 38 invited seminars at international universities in 10 countries: Canada, China, Germany, Hong Kong, Italy, Japan, Netherlands, Singapore, Tunisia, United Kingdom.

Applied Research and Consulting

1. The National Cancer Institute, Washington, D.C. Developed and implemented an optimization model that saved 43,500 lives as part of the ASSIST smoking control project, at the time the largest procurement ever by the National Institutes of Health.
2. O.M. Scott & Sons, Marysville, Ohio. Developed models for improving process flows and setup times for the largest manufacturer of fertilizer in the U.S.
3. Visiline, Inc. Serving as a member of the company's Board of Advisors. Offering technical oversight for software product development, and assistance with business plan development.

Teaching

Statement of Teaching Interests

My main teaching interests are in production and operations management, manufacturing systems, and applied operations research. Following are some example courses which would fall within this general range of interests.

Business Schools

Executive Education level

- Introduction to project management (one-day or two-day)

- Project management in information technology (half-day)

Ph.D. level

- Seminar on supply chain operations.

- Seminar on production planning and scheduling.

- Seminar on current research in operations management and optimization.

- Seminar on dynamic programming applications to supply chain management.

- Seminar on inventory control and logistics.

M.B.A. level

- Elective course on project management.

- Elective course on production scheduling and control.

- Elective course on supply chain management.

- Elective course on decision modelling with spreadsheet applications.

- Case-based survey course on production and operations management.

- Case-based survey course on operations research / management science.

- Case-based survey course on statistics.

Undergraduate level

- Elective course on project management.

- Survey course on production and operations management.

- Survey course on decision modelling with spreadsheet applications.

- Survey course on statistics with business applications.

Engineering Schools

Graduate level

- Seminar on production planning and scheduling.

- Seminar on inventory control and logistics.

- Survey course on manufacturing systems.

Survey course on computational complexity and heuristics.

Undergraduate level

Survey course on deterministic operations research.

Survey course on manufacturing systems.

Survey course on applied operations research with spreadsheet modelling.

Theory and applications course on scheduling.

Theory and applications course on production planning.

Teaching Experience

1. I.T. Project Management (Executive).
2. Managing Multiple Projects (Executive).
3. Scheduling and Applications (Executive).
4. Dynamic Programming and Supply Chain Operations (Ph.D.).
5. Scheduling Models and Applications (Ph.D.).
6. Advanced Operational Planning Models and Applications (Ph.D.).
7. Advanced Linear and Integer Programming (Ph.D.).
8. Approximation Algorithms (Ph.D.).
9. Advanced Networks and Related Models (Ph.D.).
10. Project Management (M.B.A.).
11. Operations Management: Analysis and Control (M.B.A.).
12. Introduction to Operations Management (M.B.A.).
13. Introduction to Operations Research and Applications (M.B.A.).
14. Introductory Statistics for Business (M.B.A.).
15. Introduction to Operations Management (Undergraduate).
16. Introduction to Manufacturing Systems (Undergraduate).
17. Introduction to Operations Research (Undergraduate).
18. Introduction to Statistics (Undergraduate).

Teaching Evaluations (The Ohio State University, average scores)

Overall instructor comparison scale: 1.0 (worst) to 5.0 (best).

Ph.D. courses: 5.0 *vs.* 4.4 program average.

M.B.A. courses: 4.5 *vs.* 4.0 program average.

Undergraduate courses: 4.4 *vs.* 4.0 program average.

Executive Education Experience

Fisher College of Business Executive Education Program, November 2014, March 2015.
Developed and taught a half-day course on “Managing Projects in Uncertainty” within the program “The Business of Science”. Evaluation: 6.1/7.0.

Fisher College of Business Breakfast Club, 2007. Developed and instructed a seminar on “Managing Multiple Projects”.

Fisher College of Business Executive Education Program, 2007.
Developed and instructed a half day program on “IT Project Management: Practical Lessons from 21st Century Research”, for the Securities Association of China.

The Ohio State University Continuing Education Program, 1997, 1998.
Developed and instructed a new one day workshop on production scheduling, covering various traditional and modern manufacturing environments, and including software demonstrations.

American Electric Power Company, 1995, 1996.
Made presentations to several groups of 50 executives regarding options for strategic asset management. Advised project teams on modeling approaches to support their analysis. Presented an evaluation of team reports to senior management.

Graduate Students

1. Minjiao Zhang, Ph.D., 2013: “Polyhedral Approaches to Dynamic Decision Making under Uncertainty”. First position: Assistant Professor, Culverhouse College of Commerce, University of Alabama.
2. Zhixin Liu, Ph.D., 2007: “Capacity Allocation and Rescheduling in Supply Chains”. First position: Assistant Professor, School of Management, University of Michigan - Dearborn.
3. Wenhui Zhao, Ph.D., 2007: “Polyhedral Structure of the k -Median Problem”. First position: Postdoctoral Fellow, Olin Business School, Washington University in St. Louis, Missouri.
4. Hui-Chih Hung, Ph.D., 2007: “Allocation of Jobs and Resources to Work Centers”. First position: Assistant Professor, Department of Industrial Engineering, National University of Singapore.
5. Kejian Yang, Ph.D., 2007: “Topics in Production”. First position: consultant, Fannie Mae, Washington, D.C.
6. Xiaoyan Liu, M.S., 2002: “Minimizing Strategic and Operational Costs in Facility Layout Planning”. First position: Ph.D. student, Department of Industrial Engineering and Operations Research, University of California, Berkeley.
7. Jaewhan Yang, Ph.D., 1998: “Scheduling With Batch Objectives”. First position: software consultant, I2 Technologies.
8. John J. Clifford, Ph.D., 1997: “Machine Scheduling with High Multiplicity”. First position: systems analyst, The CNA Corporation.
9. Tharmarajah Ganesharajah, Ph.D., 1997: “Scheduling in AGV-Served Manufacturing Systems”. First position: systems analyst, Bank of Montreal.
10. Joseph T. Chao, Ph.D., 1996: “Solution and Analysis for Routing in Point-to-Point Freight Delivery Systems with Breakbulks”. First position: Professor, Bowling Green State University, Bowling Green, Ohio.
11. I.N. Kamal Abadi, Ph.D., 1995: “Flowshop Scheduling Problems With No-Wait and Blocking Environments: a Mathematical Programming Approach”. First position: Chairman, Faculty of Engineering, University of Kordestan, Iran.
12. Hichem Kamoun, Ph.D., 1994: “Scheduling in Repetitive Manufacturing Systems: Complexity, Heuristic Algorithms and System Design”. First position: Professor, Faculté des Sciences Economiques et de Gestion, Sfax, Tunisia.
13. Kyeong-Sik Park, Ph.D., 1993: “Crane Scheduling Problems in a Computer-Integrated Manufacturing Environment”. First position: Systems Analyst, Samsung Corporation.

14. Abdul Andijani, Ph.D., 1992: "Analysis of Pull and Push Production Systems". First position: Chairman, Department of Systems Engineering, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.
15. Tae-Eog Lee, Ph.D., 1991: "Periodic Job Shop Scheduling". First position: Professor, Korea Advanced Institute of Science and Technology, Seoul, Korea.
16. Lu Lu, Ph.D., 1991: "Approximation Procedures for Some Multi-Item Inventory Systems". First position: Member of the Technical Staff, A.T. & T. Bell Laboratories.

Service

Editorial Appointments

1. Associate Editor, *Operations Research*, May 1991–present. Processed 135 submitted papers. Winner of 1996, 1997, 2000, 2004, 2009 and 2012 Meritorious Service Awards (see page 2). Currently Associate Editor for both *Manufacturing, Service and Supply Chain Operations* and *Optimization* areas.
2. Associate Editor, *Management Science*, November 1993–December 2008. Processed 60 submitted papers. Associate Editor for both *Operations and Supply Chain Management* and *Optimization and Modeling* departments.
3. Associate Editor, *Journal of Management Analytics*, November 2012–present.
4. Guest Editor, special issue of *Annals of Operations Research* on Supply Chain Coordination and Scheduling, October 2004–July 2008.
5. Member, Editorial Board, *Manufacturing & Service Operations Management*, December 2002–December 2006. Processed 4 submitted papers.
6. Associate Editor, *Journal of Scheduling*, June 2000–December 2004. Processed 9 submitted papers.
7. Associate Editor, *IIE Transactions* (Scheduling Department), May 1994–December 2000. Processed 15 submitted papers.
8. Member, Standing Review Panel, Hong Kong Research Grants Council, June 1994–December 2000. Reviewed 19 submitted proposals.
9. Guest Editor, for two sets of TIMS / Edelman videos that were published with textbooks by Allyn and Bacon, 1993, 1994.
10. The Consulting Editor, *U.S. Business Update*, 1986–1988.
11. Associate Editor, *Abstracts in Location Analysis*, 1986–1989.

Professional Service Activities

1. Treasurer, INFORMS, January 2011 - December 2012. Responsible for monitoring and maintaining the financial health of the 11,000 member professional society. Also serving as a member of the 5-person Executive Committee.
2. Vice President for Membership and Professional Recognition, INFORMS, January 2003 - December 2003. Responsible for liaison between the Board of Directors and both the Membership and Member Services Committee and the 11 professional awards committees for the 11,000 member professional society.
3. Director at Large, INFORMS, January 2001 - December 2002. Responsible for liaison between the Board of Directors and the 11 professional awards committees.
4. President, Manufacturing and Service Operations Management, May 1999 - May 2000. Executive Vice-President and President-Elect, April 1998 - May 1999. MSOM is a national scientific and professional society within INFORMS and has over 1,000 members.
5. Member, State of Ohio Steel Industry Advisory Council, April 1997 - June 2002. Chairman, Education Committee, August 1997 - June 2002. The Committee organizes and sponsors educational and career-related activities to support the steel industry throughout the State of Ohio. Served as the academic representative of the State of Ohio, along with two state legislators and 10 senior steel industry executives. Managed an annual budget of \$175,000 provided by public and steel industry sources. Worked with a public relations firm to develop an Ohio Steel Council website (<http://www.ohiosteel.org>) that receives over 1 million hits annually.
6. Member, INFORMS Finance Committee, November 2001 - December 2007. Developed a spreadsheet analysis that highlights the key components of the professional society's finances, and the drivers that change them.
7. Member, INFORMS Expository Writing Award Committee, 2007 - 2009. Chairman, 2009.
8. Member, INFORMS Practitioner and Practice Activities Committee, April 2000 - December 2000.
9. Member, George E. Nicholson, Jr., Student Paper Competition Committee, INFORMS, 1997, 1998. Chairman, 1999.
10. Member, External Review Panel, Intercollege Graduate Degree Program in Operations Research, Pennsylvania State University, State College, Pennsylvania, March 2006.
11. Advisor, National Science Foundation Minority Support Program. Assisted a minority student in preparing a grant proposal for submission to NSF. June 2007 – February 2008.
12. Cluster Chair, for a cluster of 12 sessions on “Scheduling and Project Management”, INFORMS National Conference, Nashville, TN, November 2016.

13. Cluster Chair, for a cluster of 10 sessions on “Scheduling and Project Management”, INFORMS National Conference, Philadelphia, PA, November 2015.
14. Cluster Chair, for a cluster of 12 sessions on “Scheduling and Project Management”, INFORMS National Conference, San Francisco, CA, November 2014.
15. Cluster Chair, for a cluster of 13 sessions on “Scheduling and Project Management, in Memory of Peter Brucker (1942–2013)”, INFORMS National Conference, Minneapolis, MN, October 2013.
16. Cluster Chair, for a cluster of 6 sessions at EURO / INFORMS Joint International Meeting, Rome, Italy, July 2013.
17. Cluster Chair, for a cluster of 14 sessions on “Scheduling and Project Management”, INFORMS National Conference, Phoenix, Arizona, October 2012.
18. Cluster Chair, for a cluster of 14 sessions on “Project Management and Scheduling”, INFORMS National Conference, Charlotte, N.C., November 2011.
19. Cluster Chair, for a cluster of 15 sessions on “Scheduling”, INFORMS National Conference, San Diego, California, October 2009.
20. Cluster Chair, for a cluster of 12 sessions on “Scheduling”, INFORMS National Conference, Washington, D.C., October 2008.
21. Cluster Chair, for a cluster of 11 sessions on “Scheduling”, INFORMS National Conference, Seattle, Washington, November 2007.
22. Cluster Chair, for a cluster of 10 sessions on “Scheduling”, INFORMS National Conference, Pittsburgh, Pennsylvania, November 2006.
23. Cluster Chair, for a cluster of 14 sessions on “Scheduling”, International INFORMS Conference, Hong Kong, June 2006.
24. Cluster Chair, for a cluster of eight sessions on “Scheduling”, INFORMS National Conference, Denver, Colorado, October 2004.
25. Cluster Chair, for a cluster of six sessions on “Modern Manufacturing”, INFORMS National Conference, Cincinnati, Ohio, May 1999.
26. Cluster Chair, for a cluster of nine sessions on “Scheduling”, TIMS/ORSA National Conference, Boston, Massachusetts, April 1994.
27. Member, Program Committee, INFORMS International Conference, Beijing, China, June 2012.
28. Member, Program Committee, POM Tokyo 2008 Conference, August 2008.

29. Organizer and Chairman for the following 49 invited paper sessions and panel discussions at conferences:

- “Supply Chain Scheduling”, 15th IFAC/IEEE/IFORS Symposium on Information Control Problems in Manufacturing (INCOM 2015), Ottawa, Canada, May 2015.
- “Uncertainty and Cooperation”, INFORMS National Conference, San Francisco, California, November 2014.
- “Current Issues in Supply Chain Design and Manufacturing”, 2014 POMS International Conference, Singapore, July 2014.
- “Dynamic Pricing and Network Games”, INFORMS National Conference, Minneapolis, Minnesota, October 2013.
- “Optimization and Mechanism Design”, INFORMS National Conference, Minneapolis, Minnesota, October 2013.
- “Panel Discussion: OR, Analytics and the Academic: The Path Forward”, Minneapolis, Minnesota, October 2013.
- “Adversaries and Tradeoffs”, INFORMS National Conference, Phoenix, AZ, October 2012.
- “Scheduling and Project Management”, INFORMS National Conference, Charlotte, N.C., November 2011.
- “Project Management and Scheduling”, INFORMS National Conference, Charlotte, N.C., November 2011.
- “Game Theory in Operations”, INFORMS National Conference, Austin, Texas, November 2010.
- “Teaching Project Management”, INFORMS National Conference, Austin, Texas, November 2010.
- “A Good Walk Analyzed: Operations Research in Golf”, INFORMS National Conference, Austin, Texas, November 2010.
- “Teaching Modern Project Management”, INFORMS National Conference, San Diego, California, October 2009.
- “Supply Chain Games”, INFORMS National Conference, Washington, D.C., October 2008.
- “Optimization Issues in Operations Planning”, INFORMS National Conference, Washington, D.C., October 2008.
- “Teaching Modern Project Management: Strategic Issues”, INFORMS National Conference, Washington, D.C., October 2008.
- “Teaching Modern Project Management: Tactical Issues”, INFORMS National Conference, Washington, D.C., October 2008.
- “Price Optimization and Price Elasticity Estimation”, INFORMS National Conference, Seattle, Washington, November 2007.

- “Integration and Approximation Issues”, INFORMS National Conference, Seattle, Washington, November 2007.
- “Discrete Manufacturing Problems”, INFORMS National Conference, Pittsburgh, Pennsylvania, November 2006.
- “Scheduling Theory and Applications”, INFORMS National Conference, San Francisco, California, November 2005.
- “Publishing Research on Scheduling”, INFORMS National Conference, Atlanta, Georgia, October 2003.
- “Scheduling with Logistics Issues”, INFORMS National Conference, Atlanta, Georgia, October 2003.
- “New Scheduling Models”, INFORMS National Conference, Atlanta, Georgia, October 2003.
- “Scheduling Supply Chains”, INFORMS National Conference, Atlanta, October 2003.
- “Scheduling in Modern Manufacturing Systems”, INFORMS National Conference, San Jose, California, November 2002.
- “Optimization Models for Scheduling”, INFORMS National Conference, San Jose, California, November 2002.
- “Scheduling Models in Modern Manufacturing Systems”, INFORMS National Conference, San Jose, California, November 2002.
- “Facility Layout Planning and Scheduling”, INFORMS National Conference, San Jose, California, November 2002.
- “Supply Chain Scheduling”, INFORMS National Conference, Miami Beach, Florida, November 2001.
- “Quality of Academic Life in Business Schools”, INFORMS National Conference, Miami Beach, Florida, November 2001.
- “Quality of Academic Life in Engineering Schools”, INFORMS National Conference, Miami Beach, Florida, November 2001.
- “New Directions in Scheduling Research”, INFORMS National Conference, Miami Beach, Florida, November 2001.
- “An Agenda for Scheduling Research”, INFORMS National Conference, San Antonio, Texas, November 2000.
- “New Directions in Scheduling Research”, INFORMS National Conference, San Antonio, Texas, November 2000.
- “New Directions in Scheduling Research”, International Symposium on Mathematical Programming, Atlanta, Georgia, August 2000.
- “Scheduling Models for Modern Manufacturing”, INFORMS National Conference, Montreal, April 1998.
- “New Scheduling Algorithms”, INFORMS National Conference, Montreal, April 1998.

- “Discrete Optimization”, International Symposium on Mathematical Programming, Lausanne, Switzerland, August 1997.
 - “Scheduling using Mathematical Programming Approaches”, International Symposium on Mathematical Programming, Lausanne, Switzerland, August 1997.
 - “Scheduling in Modern Manufacturing Systems”, International Symposium on Mathematical Programming, Lausanne, Switzerland, August 1997.
 - “New Directions in Scheduling”, INFORMS National Conference, Washington, D.C., May 1996.
 - “Scheduling”, ORSA/TIMS National Conference, Detroit, October 1994.
 - “New General Methodologies for Scheduling”, ORSA/TIMS National Conference, San Francisco, November 1992.
 - “The Future of Operations Management: Perspectives of Younger Faculty”, TIMS/ORSA National Conference, Orlando, April 1992.
 - “The Future of Operations Management: Perspectives of Younger Faculty”, TIMS/ORSA National Conference, Las Vegas, May 1990.
 - “Networks and Crew Scheduling”, TIMS/ORSA National Conference, New Orleans, May 1987.
 - “Analysis of Scheduling Heuristics”, ORSA/TIMS National Conference, Miami, November 1986.
 - “Complexity Issues and Heuristics in Flexible Manufacturing Systems”, ORSA/TIMS National Conference, Atlanta, November 1985.
30. Member, INFORMS Junior Faculty Interest Group paper competition, 2005.
 31. Member, International Program Committee, 5th International Conference on Optimization: Techniques and Applications (ICOTA 2001), Hong Kong, December 2001.
 32. Liaison Officer, ORSA Technical Section on Manufacturing Management, 1992-1995.
 33. Member, Teaching Panel, INFORMS New Faculty Colloquium, San Francisco, November 2014.
 34. Member, Teaching Panel, INFORMS Doctoral Student Colloquium, San Antonio, November 2000.
 35. Member, Student Paper Competition Committee, MSOM, 1998.
 36. External reviewer for 28 promotion and/or tenure cases at peer institutions.
 37. Member, Management of Healthsciences and Technology (MHT) Editorial Board; Member, MHT Education Committee; February 1999 - present.
 38. External Ph.D. Examiner: McMaster University, Canada, April 2004, April 2010; University of Melbourne, Australia, November 2009.

39. Member, National Science Foundation Peer Review Panels (Washington, D.C.): Scheduling and Logistics (June 1998); CAREER - Production Systems (November 1999); Manufacturing Enterprise Systems (December 2002); Service Enterprise Engineering (April 2004); Operations Research (April 2005); Manufacturing Enterprise Systems (June 2008); Operations Research (May 2009); Operations Research (December 2009); Manufacturing Enterprise Engineering / Service Enterprise Engineering (December 2010, December 2011); CAREER - Manufacturing Enterprise Engineering / Service Enterprise Engineering (October 2012); Manufacturing Enterprise Engineering / Service Enterprise Engineering (April 2014).
40. Referee of 150 papers for: *Operations Research*, *Management Science*, *Mathematics of Operations Research*, *Mathematical Programming*, *ORSA Journal on Computing*, *Operations Research Letters*, *Naval Research Logistics (Quarterly)*, *Transportation Research*, *Transportation Science*, *Annals of Operations Research*, *European Journal of Operational Research*, *International Journal of Flexible Manufacturing Systems*, *American Journal of Mathematical and Management Sciences*, *Networks*, *Journal of Heuristics*, *Production and Operations Management*, *INFOR*, *Algorithmica*, *Acta Informatica*, *Journal of Combinatorial Optimization*, *Opsearch*, *Omega*.
41. Referee of 25 proposals for: INFOCOM '86, Natural Sciences and Engineering Research Council of Canada, University and Polytechnic Grants Committee (Hong Kong), Israel Science Foundation.
42. Reviewer for:
Production and Operations Analysis, S. Nahmias, 4th edition, Irwin (1991).
Introduction to Management Science, W. Stevenson, 2nd edition, Irwin (1991).
An Introduction to Management Science, D.R. Anderson, D.J. Sweeney and T.A. Williams, 7th edition, West (1995).
Operations Scheduling with Applications in Manufacturing and Services, M. Pinedo and X. Chao, 1st edition, McGraw-Hill (1997).
Scheduling with Batching, M. Kovalyov, C.N. Potts, Y. Shafransky and V.A. Strusevich, 1st edition, Princeton University Press (2001).
Quantitative Analysis for Management, B. Render, R.M. Stair, Jr. and M.E. Hanna Prentice Hall (2003).
TestGen exam preparation software, Prentice Hall (2003).

Committee and Service Activities (The Ohio State University)

University

1. Elected member, University Senate, 2004–08.
2. Member of University Research and Graduate Council, 2001–05. The Committee sets policy on research and graduate study for the Graduate School.
3. Member of University Faculty Hearing Committee, 1996–2001. The Committee hears appeals of tenure and promotion denial cases, as well as discussion of tenure removal cases.
4. Member of University Committee on Academic Misconduct, 1992–96. Chairman, 1994–95. The Committee of 32 faculty and students adjudicates on approximately 300 cases of alleged academic misconduct each year. As Chairman, developed an outreach program to educate faculty and students University-wide about academic misconduct issues and procedures.

Fisher College of Business

1. Chairman of College of Business Teaching Committee, 1991-97. Author of “Evaluation and Development of Teaching in the College of Business”, 10 pages. This document describes a new process, including questionnaire forms, officially adopted in 1992 for teaching evaluation and development within the College. A revised version was prepared and adopted in 1995.
2. Member of MBA Program Continuous Improvement Subcommittee, 1996-98. Drafted a set of guidelines and procedures by which continuous program improvement could be implemented and evaluated. Developed a detailed proposal for in-class peer visitation and review, which is now used for teaching development.
3. Member of Engineering Management Task Force, 2000-02. Represented the Fisher College of Business on a task force which developed a proposal for an engineering management specialization available to Masters students in both engineering and business colleges. The proposal received Graduate School approval in June 2002, and became the Masters of Business and Logistics Engineering Program.
4. Member of College of Business International Programs Committee, 2001-02.
5. Member of College of Business Faculty Investigations Committee, 2001-08.
6. Member of College of Business Scholarship Committee, 1991-96.
7. Member of College of Business Research Committee, 1988-89, 1992-93.
8. Member of College of Business Undergraduate Program Policy Committee, 1989-90.

9. Member of College of Business Ph.D. Program Policy Committee, 1987-88.
10. Member of College of Business Continuing Education Committee, 1985-86.

Department of Management Sciences

1. Decision Sciences Area Chairman, 2001–02. This involves coordinating issues affecting graduate programs with six faculty members. Negotiated with College Dean the reinstatement of the Decision Sciences Ph.D. program. Developed new Ph.D. program requirements and new procedures for admission and review of Ph.D. students.
2. Coordinator for 30 sections of Business Management 331, 1992–96, 1997–98, 2002–06. This involves course redesign, assisting first-time instructors with class preparation, adjudicating on course waivers, and dealing with problems raised by students. Positive ratings for Business Management 331 increased from 53.2% to 64.5% of students, negative ratings decreased from 29.9% to 19.4%.
3. Decision Sciences Area Ph.D. Program Coordinator, 2002-03. Worked with area faculty to increase doctoral program admissions and establish program procedures.
4. Author of “Generic Promotion and Tenure Review Document”, 26 pages, 1987. This is a prototype report on a tenure candidate. The report was officially adopted for use in all future Department of Management Sciences reviews.
5. Member of Doctoral Program Review Committee, 1984-87. This Committee undertook a substantial revision of the doctoral program in operations research, including the redesign of the course sequence for operations research majors.
6. Member of 6 Departmental Tenure and Promotion Peer Review Committees.
7. Department United Way coordinator, 1986, 1992.

Committee and Service Activities (University of California, Berkeley)

1. Author of “A Doctoral Student’s Guide to Finding an Academic Job”, 12 pages, which became part of the Graduate School of Business Administration’s Ph.D. Handbook.
2. Member of Committee of Doctoral Students in Business Administration.