

# VITA

## Alan Raymond Hevner

Eminent Scholar and Professor  
Citigroup/Hidden River Chair of Distributed Technology

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### Education

- Ph.D. - September 1979, Purdue University, Computer Science. Thesis Title: *The Optimization of Query Processing on Distributed Database Systems*, Advisor: Dr. S. Bing Yao.
- M.S. - December 1976, Purdue University, Computer Science.
- B.S. - May 1973, Purdue University, Highest Distinction in Mathematics (Honors Program) and Computer Science.

#### Honors:

- Purdue University Department of Computer Science Outstanding Alumnus Award, 2007.
- Purdue University ROTC Hall of Fame, Inducted 2001.
- Purdue University Graduate Fellowship, 1976-1978
- Phi Beta Kappa: Inducted as a Junior at Purdue University, 1972
- Phi Kappa Phi: Inducted as a Junior at Purdue University, 1972
- Phi Eta Sigma: Inducted as a Freshman at Purdue University, 1970

### Professional Experience

August 1994 – Present

Eminent Scholar and Professor of Information Systems and Decision Sciences, College of Business Administration, University of South Florida, Holder of the Citigroup/Hidden River Chair of Distributed Technology

June 2006 – June 2008

Program Director, Computer and Information Science and Engineering (CISE) Directorate, National Science Foundation - Focus on Science of Design and Software for Real-World Systems Programs

August 1981 - July 1994

Professor of Information Systems (1993-1994), College of Business and Management, Univ. of Maryland at College Park

- Associate Professor (1986-1993)
- Assistant Professor (1981-1986)
- Faculty of the Institute for Systems Research, Engineering Research Center funded by the NSF, (1990-1994)
- Chair of Information Systems Faculty, College of Business and Management, (1987-1993)

September 1979 - June 1981

Assistant Professor, Department of Computer Science, University of Minnesota

January 1976 - May 1979

March 2008

Graduate Instructor, Department of Computer Science, Purdue University

Summer 1978

Adjunct Faculty in Computer Applications and Information Systems, Graduate School of Business Administration, New York University

September 1973 - September 1975

Commissioned Officer, United States Army, Air Defense Artillery, Schweinfurt and Ansbach, Germany

## Teaching Experience

I have taught courses on the following topics at Purdue University, New York University, the University of Minnesota, the University of Maryland, the University of South Florida, and in numerous professional seminars:

- Introduction to Business Information Systems (Honors and Regular Sections)
- Introduction to Computer Science
- Computer Programming with Languages C, C++, Pascal, FORTRAN, PL/I, COBOL, and Ada
- Assembly Language Programming
- Data Structures and Advanced Data Structures
- File Organizations
- Database Systems and Database System Design
- Distributed Data Processing and Distributed Database Systems
- Telecommunications
- Security and Control of Information Systems
- Information Systems Analysis and Design
- Software Architecture
- Software Testing
- Seminars on Database System Research
- Seminars on Advanced Topics on Information Systems Development
- Seminars on Foundations of Management Information Systems Research
- Seminars on Design Science Research in Information Systems

## Research Publications

### Books, Book Chapters, and Edited Works

1. A. Hevner, Subject Editor, "Design Science Research" Volume in the *SAGE Major Currents in Information Systems Series*, SAGE Publications, Inc., Thousand Oaks, CA, 2008.
2. A. Hevner, R. Linger, M. Pleszkoch, S. Prowell, and G. Walton, "Flow-Service-Quality (FSQ) Engineering: A Discipline for Developing Systems of Systems," Chapter in *Information Systems Analysis and Design: Foundations, Methods, and Practices*, Edited by R. Chiang and K. Siau, Advances in Management Information Systems Monograph Series, M.E. Sharpe, Inc., 2008.
3. D. Berndt, A. Hevner, and J. Griffiths, "Managing Real-Time Bioterrorism Surveillance Data," Chapter 6 in *National Security*, Edited by H. Chen, T.S. Raghu, R. Ramesh, A. Vinze, and D. Zeng, Handbooks in Information Systems Series, Elsevier, Inc., 2007, pp. 133-163.
4. G. Green, R. Collins, and A. Hevner, "Developer-Driven Quality: Guidelines for Implementing Software Process Improvements," Chapter in *Measuring Information Systems Delivery Quality*, Edited by E. Duggan and H. Reichgelt, Idea Group Publishing, 2006, pp. 181-200.
5. A. Hevner, R. Linger, M. Pleszkoch, and G. Walton, "Flow-Service-Quality (FSQ) Engineering for the Specification of Complex Systems," Chapter 11 in *Practical Foundations of Business System Specifications*, Edited by H. Kilov and K. Baclawski, Kluwer Academic Publishers, The Netherlands, 2003, pp. 215-229.
6. J. Studnicki, A. Hevner, and D. Berndt, "Using Data to Meet a Policy Objective: Community Health Assessment Practice with the CATCH Data Warehouse," Chapter 30 in *Public Health Informatics and Information Systems*, Edited by P. O'Carroll, W. Yasnoff, M. Ward, L. Ripp, and E. Martin, Springer-Verlag, New York, 2003, pp. 661-680.

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7. A. Hevner and D. Berndt, "Eras of Business Computing," Chapter in *Advances in Computers*, Vol. 52, Edited by M. Zelkowitz, Academic Press, Inc., 2000, pp. 1-90.
8. A. Hevner and G. Koehler, Editors, *Proceedings of the Second Annual INFORMS Conference on Information Systems and Technology*, San Diego, May 1997.
9. A. Hevner, N. Kamel, and V. Storey, Editors, Special Issue of *Decision Support Systems* with selected papers from the 1993 Workshop on Information Technology and Systems (WITS'93), Vol. 17, No. 1, 1996.
10. A. Hevner and H. Mills, "Object-Oriented Design with Box Structures," Chapter 9 in *Studies in Computer Science: In Honor of Samuel D. Conte*, Edited by J. Rice and R. DeMillo, Plenum Press, New York, 1994, pp. 191-211.
11. A. Hevner and N. Kamel, Editors, *Proceedings of the Third Annual Workshop on Information Technology and Systems (WITS'93)*, Orlando, December 1993.
12. A. Hevner, "Object-Oriented System Development Methods," Chapter in *Advances in Computers*, Vol. 35, Edited by M. Yovits, Academic Press, Inc., 1992, pp. 135-198.
13. S. Becker and A. Hevner, "A Dynamic System Modelling Tool Using Box Structures and Petri Nets," Chapter in *Dynamic Modelling of Information Systems, II*, Edited by H. Sol and R. Crosslin, North-Holland, 1992, pp. 145-165.
14. A. Hevner, "An Integrated Systems Development Environment with Box Structures," Chapter 8 in *Systems Analysis and Design: A Research Perspective*, Edited by W.W. Cotterman and J.A. Senn, John Wiley and Sons, 1992, pp. 115-130.
15. A. Hevner and A. Rao, "Distributed Data Allocation Strategies," Chapter 3 in *Advances in Computers*, Vol. 27, Edited by M. Yovits, Academic Press, Inc., 1988, pp. 121-155.
16. H. Mills, R. Linger, and A. Hevner, *Principles of Information Systems Analysis and Design*, Academic Press, Inc., 1986.
  - Listed as one of 87 must-read books on the Programmer's Bookshelf by Edward Yourdon in *Decline and Fall of the American Programmer*, PTR Prentice-Hall, Inc., 1993.
17. B. Golden, A. Hevner, D. Power, and E. Wasil, "Decision Insight Systems for Microcomputers: An Overview," Chapter in *Impacts of Microcomputers on Operations Research*, Edited by S. Gass, H. Greenberg, K. Hoffman, and R. Langlely, North-Holland, 1986, pp. 172-179.
18. A. Hevner and S.B. Yao, "Network Database Design Techniques," Chapter 8 in *Principles of Database Design, Vol. 1: Logical Organizations*, Edited by S.B. Yao, Prentice-Hall Inc., 1985, pp. 294-324.
19. A. Hevner, "Data Allocation and Retrieval in Distributed Systems," Chapter 11 in *Advances in Data Base Management, Vol. 2*, Edited by E. Unger, P. Fisher, and J. Slonim, Wiley Heyden Advances Library in EDP Management, 1984, pp. 225-252.
20. W. Kim, D. Batory, A. Hevner, R. Katz, and D. Reiner, Editors, *Database Engineering, Vol. 1*, IEEE Computer Society Press, 1983.
21. A. Hevner, Editor, Special issue on "Research Directions in Distributed Database Systems," *Database Engineering*, Vol. 5, No. 4, December 1982.

### Refereed Journals

1. R. Collins, A. Hevner, G. Walton, and R. Linger, "The Impacts of Function Extraction Technology on Program Comprehension: A Controlled Study," *Information and Software Technology*, to appear 2008.
2. M. Pleszkoch, R. Linger, and A. Hevner, "Introducing Function Extraction into Software Testing," *The Data Base for Advances in Information Systems*, to appear 2008.
3. A. Hevner, "A Three Cycle View of Design Science Research," *Scandinavian Journal of Information Systems*, Vol. 19, No. 2, 2007, pp. 87-92.
4. M. Domino, R. Collins, and A. Hevner, "Controlled Experimentation on Adaptations of Pair Programming," *Information Technology and Management*, Vol. 8, Springer, Inc., December 2007, pp. 297-312.
5. D. Berndt, J. Fisher, J. Craighead, A. Hevner, S. Luthur, and J. Studnicki, "The Role of Data Warehousing for

- Bioterrorism Surveillance,” *Decision Support Systems, Special Issue on Cyberinfrastructure for Homeland Security*, Vol. 43, No. 4, August 2007, pp. 1383-1403.
6. C. LeRouge, A. Hevner, and R. Collins, “It’s More than Just Use: Investigating Telemedicine Use Quality,” *Decision Support Systems, Special Issue on Decision Support in Medicine*, Vol. 43, No. 4, August 2007, pp. 1287-1304.
  7. S. March and A. Hevner, “Integrated Decision Support Systems: A Data Warehousing Perspective,” *Decision Support Systems*, Vol. 43, No. 3, April 2007, pp. 1031-1043.
  8. K. Chari and A. Hevner, “System Test Planning of Software: An Optimization Model,” *IEEE Transactions on Software Engineering*, Vol. 32, No. 7, July 2006, pp. 503-509.
  9. C. LeRouge, M. Garfield, and A. Hevner, “Provider Perspectives of Telemedicine Encounter Quality,” *International Journal of Healthcare Technology and Management*, Vol. 6, Nos. 4/5/6, 2005, pp. 397-419.
  10. G. Green, A. Hevner, and R. Collins, “The Impacts of Quality and Productivity Perceptions on the Use of Software Process Improvement Innovations,” *Information and Software Technology*, Vol. 47, No. 8, June 2005, pp. 543-553.
  11. A. Bajaj, D. Batra, A. Hevner, J. Parsons, and K. Siau, “Systems Analysis and Design: Should We Be Researching What We Teach?” *Communications of the AIS*, Vol. 15, April 2005, pp. 478-493.
  12. J.L. Seng, S.B. Yao, and A. Hevner, “Requirement-Driven Database Systems Benchmark Method,” *Decision Support Systems*, Vol. 38, No. 4, January 2005, pp. 629-648.
  13. A. Hevner, S. March, J. Park, and S. Ram, “Design Science Research in Information Systems,” *Management Information Systems Quarterly*, Vol. 28, No. 1, March 2004, pp. 75-105.
    - Selected by ISI Essential Science Indicators for October 2005 as a Fast Breaking Paper, Thomson-ISIR. Author Interview at <http://www.esi-topics.com/fbp/2005/october05-AlanRHevner.html> .
  14. B. Hungerford, A. Hevner, and R. Collins, “Reviewing Software Diagrams: A Cognitive Study,” *IEEE Transactions on Software Engineering*, Vol. 30, No. 2, February 2004, pp. 82-96.
  15. G. Green, R. Collins, and A. Hevner, “Perceived Control and the Diffusion of Software Development Innovations,” *Journal of High Technology Management Research*, Vol. 15, No. 1, February 2004, pp. 123-144.
  16. D. Berndt, A. Hevner, and J. Studnicki, “The CATCH Data Warehouse: Support for Community Health Care Decision Making,” *Decision Support Systems*, Vol. 35, June 2003, pp. 367-384.
  17. A. Hevner, R. Collins, and M. Garfield, “Product and Project Challenges in Electronic Commerce Software Development,” *The Data Base for Advances in Information Systems*, Vol. 33, No. 4, Fall 2002, pp. 10-23.
  18. D. Berndt, J. Fisher, A. Hevner, and J. Studnicki, “Healthcare Data Warehousing and Quality Assurance,” *IEEE Computer*, Vol. 34, No. 12, December 2001, pp. 33-42.
  19. J. Studnicki, A. Hevner, D. Berndt, and S. Luther, “Rating the Health Status of U.S. Communities,” *Managed Care Interface*, Vol. 14, No. 11, November 2001, pp. 43-51.
  20. J. Studnicki, A. Hevner, D. Berndt, and S. Luther, “Comparing Alternative Methods for Composing Community Peer Groups: A Data Warehouse Application,” *Journal of Public Health Management and Practice*, Vol. 7, No. 6, November 2001, pp. 87-94.
  21. D. Berndt, A. Hevner, and J. Studnicki, “Data Warehouse Dissemination Strategies for Community Health Assessments,” *Informatik/Informatique*, Journal of the Swiss Informatics Society, No. 1, February 2001, pp. 27-33.
    - Joint publication in *Upgrade*, Online journal of the Council of European Professional Informatics Societies.
    - Joint publication in *Novatica*, Journal of the Spanish Informatics Society, No. 149, January-February 2001, pp. 54-60, (in Spanish).
  22. G. Green and A. Hevner, “Guidance for the Successful Diffusion of Information Technology Innovations in Software Development Organizations,” *IEEE Software*, Vol. 17, No. 6, November/December 2000, pp. 96-103.
  23. S. March, A. Hevner, and S. Ram, “An Agenda for Information Technology Research in Heterogeneous and Distributed Environments,” *Information Systems Research*, Vol. 11, No. 4, December 2000, pp. 327-341.
  24. A. Hevner, “Phase Containment Metrics for Software Quality Improvement,” *Information and Software Technology*, Vol. 39, No. 13, December 1997, pp. 867-877.

25. J. Studnicki, B. Steverson, B. Myers, A. Hevner, and D. Berndt, "Comprehensive Assessment for Tracking Community Health (CATCH)," *Best Practices and Benchmarking in Healthcare*, Vol. 2, No. 5, September/October 1997, pp. 196-207.
26. T. Vagoun and A. Hevner, "Feasible Input Domain Partitioning in Software Testing: RCS Case Study," *Annals of Software Engineering, Special Issue on Software Testing and Quality Assurance*, Volume 4, 1997, pp. 159-170.
27. R. Blankinship, A. Hevner, and S.B. Yao, "An Iterative Method for Distributed Database Optimization," *Journal of Data and Knowledge Engineering*, Vol. 21, No. 1, December 1996, pp. 1-30.
28. C. Trammel, M. Pleszkoch, R. Linger, and A. Hevner, "The Incremental Development Process in Cleanroom Software Engineering," *Decision Support Systems*, Vol. 17, No. 1, 1996, pp. 55-71.
  - Received the ANBAR Citation of Highest Quality Rating for research excellence, ANBAR Electronic Intell., 1997.
29. A. Hevner and H. Mills, "Box-Structured Requirements Determination Methods," *Decision Support Systems*, Vol. 13, No. 3/4, March 1995, pp. 223-239.
30. C.S. Lambert, R. Durand, and A. Hevner, "Technology Diffusion in Large Organizations Using Customer Perception Analysis Methods," *Acquisition Review Quarterly*, Vol. II, No. 1, Winter 1995, pp. 21-41.
31. A. Hevner and H. Mills, "Box Structured Methods for Systems Development with Objects," *IBM Systems Journal*, Vol. 32, No. 2, 1993, pp. 232-251.
32. A. Basu and A. Hevner, "The Analysis and Design of Embedded Knowledge-based Systems Using Box Structure Methods," *Journal of Management Information Systems*, Vol. 8, No. 4, Spring 1992, pp. 117-146.
33. A. Hevner, S. Becker, and L. Pedowitz, "Integrated CASE for Cleanroom Development," *IEEE Software*, Vol. 9, No. 2, March 1992, pp. 69-76.
34. P. Hausler, R. Linger, M. Pleszkoch, and A. Hevner, "Using Function Abstraction to Understand Program Behavior," *IEEE Software*, Vol. 7, No. 1, January 1990, pp. 55-63.
  - Reprinted in *Software Reengineering*, R. Arnold, editor, IEEE Computer Society Press, 1992.
35. H. Mills, R. Linger, and A. Hevner, "Box Structured Information Systems Development," *IBM Systems Journal*, Vol. 26, No. 4, December 1987, pp. 395-413.
  - Reprinted in *Software State-of-the-Art: Selected Papers*, T. DeMarco and T. Lister, eds, Dorset House Pub., 1990.
  - Reprinted in *Cleanroom Software Engineering: A Reader*, J. Poore and C. Trammell, eds, Blackwell Pub., 1996.
36. T. Baba, S.B. Yao, and A. Hevner, "Design of a Functionally Distributed, Multiprocessor Database Machine Using Data Flow Analysis," *IEEE Transactions on Computers*, Vol. C-36, No. 6, June 1987, pp. 650-666.
37. S.B. Yao, A. Hevner, and H. Young-Myers, "Analysis of Database System Architectures Using Benchmarks," *IEEE Transactions on Software Engineering*, Vol. SE-13, No. 6, June 1987, pp. 709-725.
38. A. Hevner and S.B. Yao, "Querying Distributed Databases on Local Area Networks," *Proceedings of the IEEE: Journal of the IEEE*, Vol. 75, No. 5, May 1987, pp. 563-572.
39. B. Golden, A. Hevner, and D. Power, "Decision Insight Systems for Microcomputers: A Critical Evaluation," *Computers & Operations Research*, Vol. 13, No. 2/3, 1986, pp. 287-300.
40. R. Elmarsi, J. Weeldreyer, and A. Hevner, "The Category Concept: An Extension to the Entity-Relationship Model," *Journal of Data and Knowledge Engineering*, Vol. 1, No. 1, June 1985, pp. 75-116.
41. D. Power and A. Hevner, "Executive Workstations: Issues and Requirements," *Information and Management*, Vol. 8, No. 4, April 1985, pp. 213-220.
42. A. Hevner, O. Wu, and S.B. Yao, "Query Optimization on Local Area Networks," *ACM Transactions on Information Systems*, Vol. 3, No. 1, January 1985, pp. 35-62.
43. S.B. Yao, A. Hevner, Z. Shi, and D. Luo, "FORMANAGER: An Office Forms Management System," *ACM Transactions on Information Systems*, Vol. 2, No. 3, July 1984, pp. 235-262.
44. P. Apers, A. Hevner, and S.B. Yao, "Optimization Algorithms for Distributed Queries," *IEEE Transactions on Software Engineering*, Vol. SE-9, No. 1, January 1983, pp. 57-68.
  - Reprinted in *Tutorial: Recent Advances in Distributed Data Base Management*, C. Mohan, editor, IEEE Computer

Society Press, 1984.

- P. Apers, A. Hevner, and S.B. Yao, "Authors' Reply to Comments on Optimization Algorithms for Distributed Queries," *IEEE Transactions on Software Engineering*, Vol. SE-10, No. 4, July 1984, pp. 465.
45. A. Hevner and S.B. Yao, "Query Processing in Distributed Database Systems," *IEEE Transactions on Software Engineering*, Vol. SE-5, No. 3, May 1979, pp. 177-187.
- Reprinted in *Distributed Computing: Concepts and Implementations*, P. McEntire, J. O'Reilly, and R. Larson, editors, IEEE Press Selected Reprint Series, IEEE Press, 1984.

### Submitted to Refereed Journals

1. M. Harris, R. Collins, and A. Hevner, "Management Control of Flexible Development under Uncertainty and Its Impact on a Globally Distributed Environment," submitted to *Information Systems Research: Special Issue on Flexible and Distributed Information Systems*.

### Refereed Proceedings

1. M. Tremblay, A. Hevner, and D. Berndt, "The Use of Focus Groups in Design Science Research," *Proceedings of the Design Science Research in Information Systems and Technology (DESRIST 2008)*, Atlanta, GA, May 2008.
2. A. Hevner and B. Padmanabhan, "Data Mining of Business Processes to Detect Software Errors," *Proceedings of the Second Workshop on Advances and Innovations in Software Testing*, Memphis, TN, May 2008.
3. A. Hevner, R. Linger, and M. Pleszkoch, "Transforming Software Testing with Function Extraction," *Proceedings of the First Workshop on Advances and Innovations in Software Testing*, Memphis, TN, May 2007.
4. R. Linger, M. Pleszkoch, L. Burns, A. Hevner, and G. Walton, "Next-Generation Software Engineering: Function Extraction for Computation of Software Behavior," *Proceedings of the 40<sup>th</sup> Annual Hawaii International Conference on System Sciences (HICSS40)*, Hawaii, January 2007.
5. M. Tremblay, D. Berndt, R. Collins, and A. Hevner, "Uncertainty in the Information Supply Chain: Integrating Multiple Data Sources," *4<sup>th</sup> Annual CABIT Symposium*, Phoenix, AZ, September 2006.
6. J. Griffiths, D. Berndt, and A. Hevner, "Naturally Occurring Incidents as Facsimiles for Bioterrorist Attacks," *Proceedings of IEEE International Conference on Intelligence and Security Informatics (ISI 2006)*, Lecture Notes in Computer Science, LNCS 3975, Springer, San Diego, CA, May 2006, pp. 225-236.
7. M. Harris, A. Hevner, and R. Collins, "Controls in Flexible Software Development," *Proceedings of the 39<sup>th</sup> Annual Hawaii International Conference on System Sciences (HICSS39)*, Hawaii, January 2006.
8. C. LeRouge and A. Hevner, "It's More than Just Use: An Investigation of Telemedicine Use Quality," *Proceedings of the 38<sup>th</sup> Annual Hawaii International Conference on System Sciences (HICSS38)*, Hawaii, January 2005.
9. C. LeRouge, M. Garfield, A. Hevner, and R. Collins, "Managing Technology Service Encounters: Provider Perspectives of Telemedicine Encounter Quality," *Proceedings of the Tenth America's Conference on Information Systems*, New York City, August 2004, pp. 283-294.
10. A. Hevner and R. Linger, "The Design of Complex Software-Intensive Systems: A Quest for Intellectual Control," *Proceedings of the 3<sup>rd</sup> AIS SIGSAND Workshop*, St. Johns, Newfoundland, June 2004.
11. D. Berndt, S. Bhat, J. Fisher, A. Hevner, and J. Studnicki, "Data Analytics for Bioterrorism Surveillance," *Proceedings of Second Symposium on Intelligence and Security Informatics (ISI 2004)*, Lecture Notes in Computer Science, LNCS 3073, Springer-Verlag, June 2004, pp. 18-29.
12. C. LeRouge, A. Hevner, R. Collins, and D. Law, "Social and Technical Quality Attributes in a Telemedicine Encounter: Contrasting Perspectives", *Proceedings of the American Telemedicine Association 2004, Ninth Annual Meeting and Exposition*, Tampa, May 2004.
13. R. Linger, A. Hevner, G. Walton, and M. Pleszkoch, "Flow-Service-Quality (FSQ) Engineering: Foundations for High-Assurance Network Systems Development," (Abstract) *Eighth IEEE International Symposium on High Assurance Systems Engineering*, Tampa, March 2004, pp. 265-266.
14. C. LeRouge, A. Hevner, R. Collins, M. Garfield, and D. Law, "Telemedicine Encounter Quality: Comparing Patient and Provider Perspectives of a Socio-Technical System," *Proceedings of the 37<sup>th</sup> Annual Hawaii International*

*Conference on System Sciences (HICSS37)*, Hawaii, January 2004.

- Best Paper Award for the Healthcare Systems Track.

15. S. March and A. Hevner, "Integrated Decision Support: A Data Warehousing Perspective," *Proceedings of the First Annual Workshop on Decision Support Systems*, Seattle, December 2003.
16. K. Chari and A. Hevner, "Integration Testing Planning of Object-Oriented Software," *Proceedings of the Eighth Annual INFORMS Conference on Information Systems and Technology*, Atlanta, October 2003.
17. M. Douglas, A. Hevner, and R. Collins, "The Impacts of Process Structure, Communication, and Coordination on Software Project Estimation," *Proceedings of the 18<sup>th</sup> International Forum on COCOMO and Software Cost Modeling*, Los Angeles, October 2003.
18. D. Berndt, A. Hevner, and J. Studnicki, "Bioterrorism Surveillance with Real-Time Data Warehousing," *Proceedings of First NSF/NIJ Symposium on Intelligence and Security Informatics (ISI 2003)*, Lecture Notes in Computer Science, LNCS 2665, Springer-Verlag, June 2003, pp. 322-335.
19. M. Domino, R. Collins, A. Hevner, and C. Cohen, "Conflict in Collaborative Software Development," *Proceedings of SIGCPR/SIGMIS 2003 Conference*, Philadelphia, PA, April 2003.
20. M. Douglas, A. Hevner, and R. Collins, "System Dynamics and Case Research: Triangulation in Software Development," *Proceedings of the International Symposium on Research Methods*, Barcelona, Spain, December 2002, pp. 12-13.
21. R. Linger, G. Walton, M. Pleszkoch, and A. Hevner, "Flow-Service-Quality (FSQ) Requirements Engineering for High-Assurance Systems," *Proceedings of the International Workshop on Requirements for High Assurance Systems*, Essen, Germany, September 2002, pp. 69-76.
22. M. Domino, R. Collins, and A. Hevner, "Applying Agile Software Development Processes to Global Virtual Teams: A Study of Communication Modalities," *Proceedings of Computer Personnel Research 2002 (SIGCPR'02)*, Kristiansand, Norway, May 2002.
23. C. LeRouge, M. Garfield, and A. Hevner, "Quality Attributes in Telemedicine Video Conferencing," *Proceedings of the 35<sup>th</sup> Annual Hawaii International Conference on System Sciences (HICSS35)*, Hawaii, January 2002.
24. A. Hevner, R. Linger, A. Sobel, and G. Walton, "The Flow-Service-Quality Framework: Unified Engineering for Large-Scale, Adaptive Systems," *Proceedings of the 35th Annual Hawaii International Conference on System Science (HICSS35)*, Hawaii, January 2002.
25. A. Hevner, R. Linger, A. Sobel, and G. Walton, "Specifying Large-Scale, Adaptive Systems with Flow-Service-Quality (FSQ) Objects," *Proceedings of the 10<sup>th</sup> OOPSLA Workshop on Behavioral Semantics*, Tampa, October 2001, pp. 110-120.
26. R. Linger, A. Hevner, A. Sobel, and G. Walton, "Semantic Foundations for Survivable System Analysis and Design," *Information System Survivability Workshop*, Goteborg, Sweden, July 2001.
27. K. Chari, J. Fisher, and A. Hevner, "Software Integration Test Planning: An Optimization Model," *Workshop on Information Technology and Systems (WITS'00)*, Brisbane, Dec. 2000, pp. 19-24.
28. A. Hevner, "Software Development Challenges in Electronic Commerce," *Third International Conference on Telecommunications and Electronic Commerce*, Dallas, Nov. 2000, pp. 130-138.
29. D. Berndt, A. Hevner, and J. Studnicki, "Community Health Assessments: A Data Warehousing Approach," *Proceedings of the Eighth European Conference on Information Systems*, Vienna, July 2000, pp. 1276-1283.
30. A. Hevner, D. Berndt, and J. Studnicki, "Strategic Information Systems Planning with Box Structures," *Proceedings of the 33rd Annual Hawaii International Conference on System Sciences*, Hawaii, January 2000.
31. D. Berndt, A. Hevner, and J. Studnicki, "Hospital Discharge Transactions: A Data Warehouse Component," *Proceedings of the 33rd Annual Hawaii International Conference on System Sciences*, Hawaii, January 2000.
32. D. Berndt, A. Hevner, and J. Studnicki, "CATCH/IT: A Data Warehouse to Support Comprehensive Assessment for Tracking Community Health," *Proceedings of the American Medical Informatics Association (AMIA) Annual Symposium*, Orlando, November 1998.

33. A. Hevner and R. Linger, "Box Structures for Software Architecture Definition and Verification," *Proceedings of the Seventh Workshop on Information Technologies and Systems (WITS'97)*, Atlanta, December 1997, pp. 230-235.
34. B. Hungerford and A. Hevner, "Team Synergy in Software Inspections: A Group Behavior Analysis," *Proceedings of the Third America's Conference on Information Systems*, Indianapolis, August 1997, pp. 946-948.
35. G. Green and A. Hevner, "The Diffusion of Software Development Technologies: A Research Model," *Proceedings of the Second INFORMS Conference on Information Systems and Technology*, San Diego, May 1997, pp. 129-136.
36. D. Berndt and A. Hevner, "The COR Model for Analyzing Information Systems Change," *Proceedings of the 30th Annual Hawaii International Conference on System Sciences, Vol. III - Information Systems: DSS/Knowledge-Based Systems Track*, Hawaii, January 1997, pp. 198-207.
37. A. Hevner, "The Cleanroom Evolution of a Practical Software Development Process Model," *Proceedings of the 3rd International Conference on Cleanroom Software Engineering Practices*, College Park, October 1996, pp. VI(16-25).
38. D. Berndt and A. Hevner, "Software Architecture and Organizational Structure," *Proceedings of the First INFORMS Conference on Information Systems and Technology*, Washington D.C., May 1996, pp. 115-122.
39. A. Hevner, F. Belanger, and C. Van Slyke, "Implementing Phase Containment Metrics for Software Quality Improvement," *Proceedings of the Fifth Annual Workshop on Information Technologies & Systems (WITS-95)*, Amsterdam, December 1995, pp. 249-257.
40. A. Hevner and E. Karlsson, "Research Issues in Object-Oriented Cleanroom Software Engineering," *Proceedings of the Second Annual European Industrial Symposium on Cleanroom Software Engineering*, Berlin, March 1995, pp. 11(1)-11(11).
41. A. Hevner, "KISS and TELL: Strategies for Developing an Industrial-Strength Software Development Process," *Proceedings of the International Symposium on Applied Corporate Computing*, Monterrey, Mexico, October 1994, pp. 3-12.
42. T. Vagoun and A. Hevner, "State-Based Testing Strategies," *Proceedings of the Pacific Northwest Software Quality Conference*, Portland, October 1994, pp. 427-443.
43. S. Becker, P. Beiler, and A. Hevner, "Object-Oriented Box Structures for Developing Complex Systems," *Proceedings of the 27th Annual Hawaii International Conference on System Sciences, Vol. III - Information Systems: DSS/Knowledge-Based Systems Track*, Hawaii, January 1994, pp. 43-52.
44. R. Linger and A. Hevner, "The Incremental Development Process in Cleanroom Software Engineering," *Proceedings of the Third Workshop on Information Technologies & Systems (WITS-93)*, Orlando, December 1993, pp. 162-171.
45. A. Hevner and S. Becker, "Reverse Engineering in the Cleanroom Software Specification Process," *Proceedings of the Third Annual Software Engineering Economics Conference*, MITRE Corporation, McLean, VA, March 1993.
46. R. Linger and A. Hevner, "Achieving Software Quality Through Cleanroom Software Engineering," *Proceedings of the 26th Annual Hawaii International Conference on System Sciences, Vol. IV - Organizational Systems and Technology Track*, Hawaii, January 1993, pp. 740-748.
47. S. Becker, E. Carmel, and A. Hevner, "Integrating Joint Application Development (JAD) into Cleanroom Development with ICASE," *Proceedings of the 26th Annual Hawaii International Conference on System Sciences, Vol. III - Information Systems: DSS/Knowledge-Based Systems Track*, Hawaii, January 1993, pp. 13-21.
48. M. Pleszkoch, R. Linger, and A. Hevner, "Eliminating Non-Traversable Paths from Structured Programs," *Proceedings of the Conference on Software Maintenance - 1992*, Orlando, November 1992, pp. 156-164.
49. A. Hevner, D. Lemmon, and T. Vagoun, "Quality Measurements in the Cleanroom Development Process," *Proceedings of the Second International Conference on Software Quality*, North Carolina, October 1992, pp. 80-87.
50. A. Hevner and S. Becker, "Central Repository Data Models for Cleanroom Systems Development," *Proceedings of the 25th Annual Hawaii International Conference on System Sciences, Vol. II - Software Technology Track*, Hawaii, January 1992, pp. 459-468.
51. A. Hevner, "Box Structured Requirements Determination Methods," *Proceedings of the First Workshop on Information Technologies & Systems (WITS-91)*, Boston, December 1991, pp. 82-97.

52. A. Basu and A. Hevner, "Box Structured Development of Embedded Knowledge Based Systems: A Case Study," *Proceedings of the IEEE/ACM International Conference on Developing and Managing Expert System Programs*, Washington D.C., October 1991, pp. 304-313.
53. R. Blankinship, A. Hevner, and S. Yao, "An Iterative Method for Distributed Database Design," *Proceedings of the 17th International Conference on Very Large Data Bases*, Barcelona, September 1991, pp. 389-400.
54. S. Becker and A. Hevner, "A White Box Analysis of Concurrent System Designs," *Proceedings of the Tenth Annual IEEE International Phoenix Conference on Computers and Communications*, Phoenix, March 1991, pp. 332-338.
55. A. Hevner, J. Wilkey, and S. Becker, "CASE Support for Box Structure Systems Development: A Case Study," *Proceedings of the 24th Annual Hawaii International Conference on System Sciences, Vol. II - Software Technology Track*, Hawaii, January 1991, pp. 532-542.
56. A. Hevner, A. Basu, M. Pecht, and B. Pourbabai, "A Methodology for Concurrent Product Development with a Focus on Electronic Products," *Proceedings of the Second National Symposium on Concurrent Engineering*, Morgantown, WV, February 1990, pp. 391-406.
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58. A. Basu and A. Hevner, "Information Systems Research at the University of Maryland," *Proceedings of the 23rd Annual Hawaii International Conference on System Sciences, Vol. III - Decision Support and Knowledge-Based Systems Track*, Hawaii, January 1990, pp. 597-604.
59. S. Becker and A. Hevner, "Concurrent System Design with Box Structures," *Proceedings of the 13th Annual International Computer Software and Applications Conference (IEEE COMPSAC)*, Orlando, September 1989, pp. 32-40.
60. A. Hevner and R. Linger, "A Method for Data Re-engineering in Structured Programs," *Proceedings of the 22nd Annual Hawaii International Conference on System Sciences, Vol. 1 - Software Track*, Hawaii, January 1989, pp. 1025-1034.
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61. S. Bandyopadhyay and A. Hevner, "A Structured Modelling Methodology for Solving Business Problems," *Proceedings of the 21st Annual Hawaii International Conference on System Sciences, Vol. 2 - Decision Support Systems and Knowledge Base Track*, Hawaii, January 1988, pp. 387-395.
62. H. Mills, R. Linger, and A. Hevner, "Mathematical Aspects of Box Structures," *Proceedings of the 21st Annual Hawaii International Conference on System Sciences, Vol. 1 - Software Track*, Hawaii, January 1988, pp. 745-753.
63. H. Mills, R. Linger, and A. Hevner, "Fundamental Principles of Information Systems Development," *Proceedings of the Information Systems Education Conference 1986*, Atlanta, October 25-27, 1986, pp. 1-5.
64. H. Mills, R. Linger, and A. Hevner, "Managing Information Systems Development," *Proceedings of the Information Systems Education Conference 1986*, Atlanta, October 25-27, 1986, pp. 7-12.
65. A. Hevner, "Evaluation of Optical Disk Systems for Very Large Database Applications," *Proceedings of the 1985 ACM Sigmetrics Conference on Measurement and Modeling of Computer Systems*, Austin, Texas, August 1985, pp. 166-172.
66. T. Baba, S.B. Yao, and A. Hevner, "Design of a Multiprocessor Database Machine Based on Data Flow Analysis," (in Japanese) *Proceedings of the Annual Conference of Information Processing Society of Japan*, Tokyo, July 1984.
67. S.B. Yao, A. Hevner, and S. Yu, "A Performance Benchmark of a Database Machine," *Proceedings of the 1984 Trends and Applications Conference*, National Bureau of Standards, Gaithersburg, MD, May 1984, pp. 125-131.
68. P. Dwyer and A. Hevner, "Transaction Optimization in a Distributed Database Testbed System," *Proceedings of the Seventh International Computer Software and Applications Conference (IEEE COMPSAC)*, Chicago, November 1983, pp. 564-570.
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### **Other Publications, Technical Reports, and Posters**

1. R. Collins, A. Hevner, G. Walton, and R. Linger, "The CERT Function Extraction Experiment: Quantifying FX Impact on Software Comprehension and Verification," CMU/SEI-2005-TN-047, Software Engineering Institute, Carnegie Mellon University, December 2005.
2. J. Iivari, J. Parsons, and A. Hevner, "Research in Information Systems Analysis and Design: Introduction to the Special Theme Papers," *Communications of the AIS*, Vol. 16, December 2005.
3. A. Hevner, R. Linger, R. Collins, M. Pleszkoch, S. Prowell, and G. Walton, "The Impact of Function Extraction Technology on Next-Generation Software Engineering," Technical Report CMU/SEI-2005-TR-015, Software Engineering Institute, Carnegie Mellon University, July 2005.
4. A. Hevner and S. March, "Editorial Statement: Information Technology and Systems (ITS) Department," *Communications of the AIS*, Vol. 13, 2003, pp. 108-110.
5. A. Hevner and S. March, "The Information Systems Research Cycle," IT Systems Perspective Column, *IEEE Computer*, Vol. 36, No. 11, November 2003, pp. 111-113.
6. R. Linger, M. Pleszkoch, G. Walton, and A. Hevner, "Flow-Service-Quality (FSQ) Engineering: Foundations for Network System Analysis and Development," Technical Note CMU/SEI-2002-TN-019, Software Engineering Institute, Carnegie Mellon University, June 2002.
7. C. LeRouge, D. Law, M. Garfield, A. Hevner, and D. Gratz, "Telemedicine Encounter Quality: A Tale of Two Perspectives," Peer Reviewed Interactive Poster, 2002 American Telemedicine Association Conference, Los Angeles, June 2002.
8. *MIS Interfaces*, Publication of the INFORMS Information Systems Society, "Interview with Alan Hevner," R. Mathieu, Interviewer, May 2002, <http://clh.fairfield.edu/iss> .
9. B. Thomas (Moderator), R. Cannon, G. Green, W. Hayes, A. Hevner, T. Hilburn, R. Pauwels, and J. Tomayko (Participants), "PSP Roundtable - Tales from the Front Line: Insights from PSP/TSP Trainers and Researchers," *SEI Interactive*, Vol. 2, No. 2, June 1999, <http://interactive.sei.cmu.edu>.
10. G. Green and A. Hevner, "Perceived Control of Software Developers and Its Impact on the Successful Diffusion of Information Technology," Special Report CMU/SEI-98-SR-013, Software Engineering Institute, Carnegie Mellon University, April 1999.
11. R. Streeter, G. Hagen, K. Shannon, P. Cheney, and A. Hevner, "Report on the Information Technology Industry in Florida's I-4 Corridor Region," State of Florida I-4 Grant, October 1998.
12. P. Cheney, A. Hevner, R. Streeter, G. Hagen, and K. Shannon, "Phase One Report on the Information Technology Industry in Florida's I-4 Corridor Region," State of Florida I-4 Grant, July 1998.

13. R. Cobb, A. Hevner, A. Kouchakdjian, H. Mills, and J. Whittaker, "Cleanroom Engineering Process Manuals," Volumes 1-6, Software Engineering Technology, Inc., IBM STARS CDRL 8802, December 1992.
14. A. Hevner, A. Kouchakdjian, and R. Cobb, "Enhanced Prototype CEPA Specifications," Software Engineering Technology, Inc., IBM STARS CDRL 5502-001 for Task ID-52, June 1992.
15. A. Hevner, J. Wilkey, C. Milhiser, and K. Sullivan, "CARS, A Case Study of Box-Structured Systems Development," Technical Report, Information Systems, Univ. of Maryland, College Park, 1990.
16. A. Hevner and J. Wilkey, *A Workstation for Box Structures*, Final and Intermediate Reports to Index Technology Corporation, Research Contract # SAI MD 871023-7530-360201, June 1989.
17. A. Hevner, H. Mills, J. Poore, S. Thebaut, and M. Zelkowitz, *Research Opportunities for Breakthrough Initiatives*, Final Report for Task Q22 for the Software Technology for Adaptable Reliable Systems (STARS) Program, presented at the *STARS Breakthrough Initiatives Conference*, Atlanta, March 1989.
18. A. Hevner, "The Use of Box Structures to Provide CASE Integration," *Proceedings of the Second International Workshop on Computer Aided Software Engineering*, Boston, July 1988.
19. A. Hevner and J. Wilkey, "The Development of a Box Structure Interface for CASE," *Proceedings of the Second International Workshop on Computer Aided Software Engineering*, Boston, July 1988.
20. A. Hevner, R. Linger, and H. Mills, "Automation Opportunities in the Box Structure Methodology," *Proceedings of the First International Workshop on Computer-Aided Software Engineering*, Boston, May 1987, pp. 384-401.
21. D. Power and A. Hevner, "Management Policy Expert Systems: Prospects and Requirements," *Proceedings of the Artificial Intelligence in Engineering Symposium*, George Washington University, Washington D.C., October 1985.
22. S.B. Yao and A. Hevner, *Benchmark Analysis of Database Architectures: A Case Study*, National Bureau of Standards Special Publication 500-132, D. Benigni, editor, U.S. Department of Commerce, October 1985, 187 pages.
  - Edited from: S.B. Yao and A. Hevner, *An Analysis of Three Database System Architectures Using Benchmarks*, National Bureau of Standards Report NBS-GCR-84-468, May 1984, 180 pages.
23. S.B. Yao and A. Hevner, *A Guide to Performance Evaluation of Database Systems*, National Bureau of Standards Special Publication 500-118, D. Benigni, editor, U.S. Department of Commerce, December 1984, 48 pages.
  - Edited from: S.B. Yao and A. Hevner, *Performance Evaluation of Database Systems - A Benchmarking Methodology*, National Bureau of Standards Report NBS-GCR-84-467, May 1984, 38 pages.
24. S.B. Yao, A. Hevner, and S. Nadkarni, *Evaluation of Optical Disk Systems on Very Large Database Applications*, Report Submitted to RCA Government Systems Division, November 1984, 44 pages.
25. S.B. Yao and A. Hevner, *A Design Methodology for Very Large Databases*, Report Submitted to the Army Institute for Research in Management Information and Computer Sciences (AIRMICS), Contract Number DAAG29-81-D-0100, February 22, 1984, 81 pages.
26. D. Power and A. Hevner, "Executive Workstations: Using Scenarios for System Design," Working Paper MS/S #83-042, College of Business and Management, University of Maryland, December 1983.
27. A. Hevner and S.B. Yao, "Research Directions in Query Optimization at the University of Maryland," *Database Engineering*, Vol. 5, No. 3, September 1982, pp. 28-32.
28. S.B. Yao and A. Hevner, "Physical Database Design Research at the University of Maryland," *Database Engineering*, Vol. 5, No. 1, March 1982, pp. 16-21.
29. A. Hevner, *The Optimization of Query Processing on Distributed Database Systems*, Ph.D. Thesis, Department of Computer Science, Purdue University, September 1979.

### Ph.D. Dissertations Supervised

1. Snehamay Banerjee, *Methodology for Solving Business Problems with Box Structures*, Ph.D. Dissertation, Information Systems, College of Business and Management, Univ. of Maryland, College Park, June 1989.
2. Shirley A. Becker, *Analysis and Design of Concurrent Systems with Box Structures*, Ph.D. Dissertation, Information Systems, College of Business and Management, Univ. of Maryland, College Park, March 2008.

Systems, College of Business and Management, Univ. of Maryland, College Park, April 1990.

3. Rex Blankinship, *An Iterative Method for Distributed Database Design*, Ph.D. Dissertation, Information Systems, College of Business and Management, Univ. of Maryland, College Park, September 1991. (Co-advisor with Prof. S. Bing Yao.)
4. Jia-lang Seng, *Requirements-Driven Database Systems Benchmark Method*, Ph.D. Dissertation, Information Systems, College of Business and Management, Univ. of Maryland, College Park, July 1994. (Co-advisor with Prof. S. Bing Yao.)
5. Tomas Vagoun, *State-Based Software Testing*, Ph.D. Dissertation, Information Systems, College of Business and Management, Univ. of Maryland, College Park, September 1994.
6. Gina Green, *Examining the Impacts of Development Involvement and IT Diffusion Environments on the Diffusion of Software Development Techniques*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business Administration, Univ. of South Florida, Tampa, June 1998.
7. Bruce Hungerford, *Formal Technical Reviews of Diagrammatic Artifacts in Software Development: A Cognitive Study*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business Administration, Univ. of South Florida, Tampa, December 2001. (Co-advisor with Prof. Rosann Collins.)
8. John Fisher, *Creating False Memories: Temporal Reconstruction Errors in Data Warehouses*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business Administration, Univ. of South Florida, Tampa, January 2002. (Co-advisor with Prof. Donald Berndt.)
9. Cynthia M. LeRouge, *Assessing the Quality of Telemedicine Systems: High Technology Service Encounters*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business Administration, Univ. of South Florida, Tampa, May 2003.
10. Madeline Domino, *Three Studies of Problem Solving in Collaborative Software Development*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business Administration, Univ. of South Florida, Tampa, July 2004. (Co-advisor with Prof. Rosann Collins.)
11. Michael Douglas, *The Impacts of Handoffs on Software Development: A Cost Estimation Model*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business Administration, Univ. of South Florida, Tampa, May 2006. (Co-advisor with Prof. Rosann Collins.)
12. Michael Harris, *Using Emergent Outcome Controls to Manage Dynamic Software Development Environments*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business Administration, Univ. of South Florida, Tampa, June 2006. (Co-advisor with Prof. Rosann Collins.)
13. Monica Trembley, *Uncertainty in the Information Supply Chain: Integrating Multiple Health Care Data Sources*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business Administration, Univ. of South Florida, Tampa, July 2007. (Co-advisor with Prof. Donald Berndt.)

I have served as a member on numerous Ph.D. Dissertation Defense Committees in Information Systems, Computer Science, and Systems Engineering at the University of Minnesota, the University of Maryland, and the University of South Florida. I have chaired over 15 Master's Thesis committees.

## Contracts and Grants

### External Grants and Contracts

1. Principal Investigator, National Science Foundation, IPA Assignment as Program Manager in Computer and Information Science and Engineering (CISE) Directorate, \$540,000, June 2006-June 2008.
2. Co-Principal Investigator (with A. Kandel), Department of Defense, National Institute for Applied Computational Intelligence, \$2.8M (Year 1), \$2.4M (Year 2), \$2.9M (Year 3), \$2.25M (Year 4), \$2.0M (Year 5), 2001-2006.
3. Co-Principal Investigator (with R. Linger), IRAD Research Grant, Development of Ultra-Large Scale (ULS) Software Systems, CERT Coordination Center, Software Engineering Institute, 2001-2005.
4. Co-Principal Investigator (with J. Studnicki and D. Berndt), Telecommunications and Information Infrastructure March 2008

Assistance Program (TIIAP) grant, Department of Commerce, Development of a Data Warehouse for a Comprehensive Assessment of Community Health, \$474,994 with partial match from USF, 1998-2001.

5. Co-Principal Investigator (with G. Green), Cooperative Research and Development Agreement (CRADA), Software Engineering Institute, Research on the Diffusion of Information Technologies in Software Development, Reciprocal Benefits, USF and Baylor University, 1998-2000.
6. Co-Principal Investigator (with P. Cheney and S. Birkin), I-4 Corridor Economic Development Grant from the State of Florida, Information Systems and Technology Development, Information Systems and Decision Sciences Dept., \$230,000, 1998.
7. Principal Investigator, Funding from Westinghouse, IBM, and Publix Supermarkets, Inc., Composer Academic Program, 1992-96, \$40,000.
8. Principal Investigator, Research Contract, IBM Corporation, Research in Cleanroom Software Engineering, Funding for Doctoral Student Support and Travel, June - December 1993, \$18,500.
9. Investigator, Research Contract, Software Engineering Technology, STARS (Software Technology for Adaptable Reliable Systems) Program for Department of Defense, 1988 - 1991.
10. Principal Investigator, Research Contract, Index Technology Corporation, Research on the Application of Box Structures to CASE Environments, November 1987 - June 1989, \$16,880.
11. Co-Principal Investigator (with S.B. Yao), Research Contract, National Security Agency, Distributed Database Management on LANs and Database Machines, October 1984 - May 1986, \$102,953.
12. Co-Principal Investigator (with S.B. Yao), Research Contract, RCA Government Systems Division, Design of Database Systems using Optical Disk Systems, September 1983 - April 1984, \$30,000.
13. Co-Principal Investigator (with S.B. Yao), Research Contract, National Bureau of Standards, Performance Evaluation of Database Management Systems on Microcomputers, Minicomputers, and Database Machines, October 1982 - April 1984.
14. Co-Principal Investigator (with S.B. Yao), Research Contract, Army Institute for Research in Management Information and Computer Sciences, Database Design Project for the Phase II Development of the Total Army Personnel Data Base, March 1983 - February 1984.
15. Co-Principal Investigator (with S.B. Yao), Research Contract, National Security Agency, Research on database machine interfaces and the purchase of a VAX 11/750, March 1983, \$68,000.

## Consulting

### Industry

- *Aetna Insurance Company* - I consulted with a team developing a new system to manage the flow of forms within Aetna. The new system significantly reduced the time to process forms.
- *American Telegraph and Telephone (AT&T) Paradyne* - I consulted with a team developing a new network data management system. I led an analysis of object-oriented database systems, relational database systems, and customized data structures for the application.
- *BayCare Health Systems* - With a consulting team, I facilitated a strategic information systems planning process with a selected BayCare IT Task Force. We identified effective processes for patient access, provisioning, and lifelong care. This vision was mapped onto a supporting information systems and technology infrastructure.
- *Cisco* - I was a member of a consulting team working to improve the quality and productivity of software development. I was primarily responsible for designing a metrics program in the software development organization.
- *CommerceQuest* - I provided assistance in the areas of software development process, transaction management, and distributed optimization strategies for a fast-growing E-Commerce company.
- *DSC Communications Corporation* - I was a member of a team that performed a thorough assessment of software development activities. We presented a comprehensive set of recommendations and action plans to improve software quality and schedule reliability. I led an effort to install metrics programs and software inspections in the company.

- *Encore Computer Systems* - I participated in a thorough analysis of the software development process. I presented a comprehensive report with several clear recommendations based on the state-of-the-art in software development.
- *Honeywell Computer Science Research Center* - From 1980 to 1982, I was a member of the research team in Honeywell that developed the Distributed Database Testbed System (DDTS). I was a primary architect of the distributed query optimization algorithms. I was a full-time summer employee of Honeywell during 1981. DDTS was a very successful research and development project that led to several innovations in Honeywell products.
- *International Business Machines (IBM) Corporation* - I consulted with IBM on the research and development of the Cleanroom System Development. From 1985 to 1990, I worked closely with Harlan Mills to define and extend the Box Structure Theory and Methods of system analysis and design. I worked full-time for IBM during the summers of 1987 and 1989.
- *MCI Corporation* - I was a member of a team that performed a thorough analysis of MCI's data architecture. We presented numerous recommendations to improve the quality and performance of data collection, organization, and dissemination within MCI. These recommendations were well received and were implemented.
- *Software Engineering Technology (SET), Inc.* - From 1987 to 1993 I was a consultant to SET for research and instruction in Cleanroom Software Engineering and the Box Structure Methodology.

### **Government**

- *Strategic Technology for Adaptable, Reliable Systems (STARS)* - As a member of the SET, Inc. consulting team, I participated on several STARS Tasks:
  - Task Q-22: Risk Reduction Task, 1988-89.
  - Task IR-23: STARS Breakthrough Initiatives, 1989.
  - Task IR-63: STARS Orientation Workshops, 1990.
  - Task ID-52: Cleanroom Demonstration at Picatinny Arsenal, 1992-93.

## **Professional Service**

### **Editorial Boards**

- Senior Editor, *Management Information Systems Quarterly (MISQ)*, 2008-Present. MISQ is consistently ranked as the top journal in the Information Systems research field.
- Senior Associate Editor, *Communications of the Association for Information Systems*, AIS Electronic Journal, 2004-2007.
  - Department Editor, *Information Technology and Systems*, 2004-2007.
  - Senior Editor, Special Theme on Research in Information Systems Analysis and Design, 2004-2005.
- Associate Editor, *Information Technology and E-Business Management*, Springer Publishers, 2001-Present.
- Associate Editor, *INFORMS Journal on Computing*, INFORMS, 1999–Present.
- Associate Editor, *Decision Support Systems*, North Holland Elsevier Science, 1999–Present.
- Associate Editor, *Journal of Information Technology and Management*, Baltzer Publishers, Inc., 1997-Present.
- Associate Editor, *Journal of Intelligent Information Technologies*, Idea Group Publishing, 2004-Present.
- International Advisory Board, *International Journal of Health Information Systems and Informatics*, 2005-Present.
- International Advisory Board, *Advances in Database Research Book Series*, Idea Group Inc., 2006-Present.
- Associate Editor, *Database Engineering*, IEEE Computer Society, 1981-83.

### **Member of the Association of Computing Machinery (ACM)**

- Special Interest Group on Management Information Systems (SIGMIS).
- Special Interest Group on Management of Data (SIGMOD).
- Special Interest Group on Measurement and Evaluation (SIGMETRICS).
- Special Interest Group on Software Engineering (SIGSOFT).
- ACM Information Systems Curriculum Committee, 1988-90.

### **Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) and the IEEE Computer Society**

- Elected to Senior Member, 2004.
- Society on Engineering Management
- Technical Committee on Data Engineering.
- Technical Committee on Distributed Processing.

- Technical Committee on Software Engineering.
- Database Curriculum Development Committee - Report of this committee is included in *The 1983 IEEE Computer Society Model Program in Computer Science and Engineering*, IEEE Computer Society Publications, Los Alamitos, CA, 1984.

#### **Member of the Institute for Operations Research and Management Sciences (INFORMS)**

- College on Information Systems.
- Computing Society.
- Member of the *Information Systems Research* Editorial Search/Review Committee, 2004.

#### **Member of the Association for Information Systems (AIS)**

- AIS Council Member, 2004.
- AMCIS Executive Committee Member, 2001-2004. Chair, 2004.
- Special Interest Group on Systems Analysis and Design (SIGSAND)
- Special Interest Group on Decision Support Systems (SIGDSS)
- Special Interest Group on Agent-Based Information Systems (SIGABIS)
- Special Interest Group on Health Information Systems (SIGHEALTH)

#### **Workshop on Information Technology and Systems (WITS)**

- Executive Committee Member, 1991-Present.
- Treasurer, 1994-98.
- Senior Advisor, 1998-Present.

#### **Member of the Center for National Software Studies (CNSS)**

- Board of Directors, 1996-Present.

#### **Professional Courses in Computer and Information Systems, developed and taught in cooperation with the Center for Management Development, College of Business and Management, University of Maryland**

- Relational Data Base Systems, Presented on Oct. 25-26, 1982, May 9-11, 1983, Nov. 14-15, 1983, and May 16-17, 1984.
- Data Base Design Techniques, Presented on Oct. 27-28, 1982, May 12-13, 1983, Nov. 16, 1983, and May 18, 1984.
- Box Structured Information Systems Analysis and Design, Presented on Feb. 11-13, 1987.

#### **Professional Development Seminars for the Washington D.C. Chapter of the ACM**

- Box Structured Information Systems Development, Presented on Nov. 5, 1987 and Nov. 8, 1989.

#### **Reviewer for Research Literature - Published Reviews**

1. G. Nutt, "An Experimental Distributed Modeling System," *ACM Transactions on Office Information Systems*, Vol. 1, No. 2, April 1983.
  - Review in *ACM Computing Reviews*, Vol. 24, No. 12, December 1983, p. 526-527.
2. D. Eager and K. Sevcik, "Achieving Robustness in Distributed Database Systems," *ACM Transactions on Database Systems*, Vol. 8, No. 3, September 1983.
  - Review in *ACM Computing Reviews*, Vol. 25, No. 5, May 1984, p. 240.
3. S. Ceri and G. Pelagatti, "Correctness of Query Execution Strategies in Distributed Databases," *ACM Transactions on Database Systems*, Vol. 8, No. 4, December 1983.
  - Review in *ACM Computing Reviews*, Vol. 25, No. 12, December 1984, p. 579.
4. S. Pramanik and D. Ittner, "Use of Graph-Theoretic Models for Optimal Relational Database Accesses to Perform Join," *ACM Transactions on Database Systems*, Vol. 10, No. 1, March 1985.
  - Review in *ACM Computing Reviews*, Vol. 26, No. 11, November 1985, p.621.
5. C. Yu, C. Chang, M. Templeton, D. Brill, and E. Lund, "Query Processing in a Fragmented Relational Distributed System: Mermaid," *IEEE Transactions on Software Engineering*, Vol. SE-11, No. 8, August 1985.
  - Review in *ACM Computing Reviews*, Vol. 27, No. 4, April 1986, p. 209.
6. R. Agrawal and D. Dewitt, "Integrated Concurrency Control and Recovery Mechanisms: Design and Performance Evaluation," *ACM Transactions on Database Systems*, Vol. 10, No. 4, December 1985.
  - Review in *ACM Computing Reviews*, Vol. 27, No. 10, October 1986, p. 524.
7. E. Ozkarahan, *Database Machines and Database Management*, Prentice-Hall Inc., 1986.
  - Review in *ACM Computing Reviews*, Vol. 28, No. 6, June 1987, p. 305-306.
8. A. Motro, "VAGUE: A User Interface to Relational Databases that Permits Vague Queries," *ACM Transactions on Information Systems*, Vol. 6, No. 3, July 1988.
  - Review in *ACM Computing Reviews*, Vol. 31, No. 4, April 1990, p. 218-219.

9. G. Osoyoglu, V. Matos, and M. Osoyoglu, "Query Processing Techniques in the Summary-Table-By-Example Database Query Language," *ACM Transactions on Database Systems*, Vol. 14, No. 4, December 1989, p. 526-573.
  - Review in *ACM Computing Reviews*, Vol. 31, No. 10, October 1990, p. 557.
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  - Review in *ACM Computing Reviews*, Vol. 33, No. 8, August 1992, pp. 453-454.
12. W. Hou and G. Ozsoyogul, "Processing Time-Constrained Aggregate Queries in CASE-DB," *ACM Transactions on Database Systems*, Vol. 18, No. 2, June 1993, pp. 224-261.
  - Review in *ACM Computing Reviews*, Vol. 35, No. 6, June 1994, pp. 317-318.
13. P. Tendick and N. Matloff, "A Modified Random Perturbation Method for Database Security," *ACM Transactions on Database Systems*, Vol. 19, No. 1, March 1994, pp. 47-63.
  - Review in *ACM Computing Reviews*, Vol. 36, No. 3, March 1995, pp. 169.
14. D. Burlison, *Managing Distributed Databases: Building Bridges Between Database Islands*, Wiley-QED, Inc., 1995.
  - Review in *ACM Computing Reviews*, Vol. 37, No. 8, August 1996, pp. 398.
15. C. Lang and J. Chow, *Database Publishing on the Web and Intranets*, Coriolis Group Books, 1996.
  - Review in *ACM Computing Reviews*, Vol. 38, No. 6, June 1997, pp. 277-278. (with D. Brooks)
16. C. Galindo-Legaria and A. Rosenthal, "Outerjoin Simplification and Reordering for Query Optimization," *ACM Transactions on Database Systems*, Vol. 22, No. 1, March 1997, pp. 43-74.
  - Review in *ACM Computing Reviews*, Vol. 38, No. 11, November 1997, pp. 575-576.
17. A. Chaudhri and M. Loomis, *Object Databases in Practice*, Prentice-Hall, Inc., 1998.
  - Review in *ACM Computing Reviews*, Vol. 39, No. 8, August 1998, pp. 402-403.
18. X. Liu, A. Helal, and W. Du, "Multiview Access Protocols for Large-Scale Replication," *ACM Transactions on Database Systems*, Vol. 23, No. 2, June 1998, pp. 158-198.
  - Review in *ACM Computing Reviews*, Vol. 40, No. 5, May 1999, pp. 265.
19. D. Kossman and K. Stocker, "Iterative Dynamic Programming: A New Class of Query Optimization Algorithms," *ACM Transactions on Database Systems*, Vol. 25, No. 1, March 2000, pp. 43-82.
  - Review in *ACM Computing Reviews*, Vol. 41, No. 12, December 2000, pp. 428.
20. J. McGarry, D. Card, C. Jones, B. Layman, E. Clark, J. Dean, and F. Hall, *Practical Software Measurement: Objective Information for Decision Makers*, Addison-Wesley, Inc., 2002.
  - Review in *ACM Computing Reviews*, Vol. 43, No. 9, September 2002, pp. 295-296.
21. S. Wu and F. Crestani, "Distributed Information Retrieval: A Multi-Objective Resource Selection Approach," *International Journal of Uncertainty, Fuzziness, and Knowledge-Based Systems*, Vol. 11, 2003, pp. 83-99.
  - Review in *ACM Computing Reviews*, Vol. 45, No. 3, March 2004.
22. R. Sadri, C. Zaniolo, A. Zarkesh, and J. Adibi, "Expressing and Optimizing Sequence Queries in Database Systems," *ACM Transaction on Database Systems*, Vol. 29, No. 2, June 2004, pp. 282-318.
  - Starred (\*) Review in *ACM Computing Reviews*, October 2004.
23. T. Foss, E. Stensrud, B. Kitchenham, and I. Myrtveit, "A Simulation Study of the Model Evaluation Criterion MMRE," *IEEE Transactions on Software Engineering*, Vol. 29, No. 11, November 2003, pp. 985-995.
  - Review in *ACM Computing Reviews*, June 2005.
24. N. Chaudhry, K. Shaw, and M. Abdelguerfi, Editors, *Stream Data Management*, Springer, Inc., 2005.
  - Review in *ACM Computing Reviews*, January 2006.
25. R. Kandt, *Software Engineering Quality Practices*, Auerbach Publications, 2006.
  - Review in *ACM Computing Reviews*, November 2006.
26. S. Biffli, P. Grunbacher, and M. Halling, "A Family of Experiments to Investigate the Effects of Groupware for Software Inspection," *Automated Software Engineering*, 13(3): 373-394, 2006.
  - Review in *ACM Computing Reviews*, January 2007.

### Referee for Research Journals

- |                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>▪ <i>ACM Computing Surveys</i></li> <li>▪ <i>ACM Transactions on Computer Systems</i></li> <li>▪ <i>ACM Transactions on Database Systems</i></li> <li>▪ <i>ACM Transactions on Information Systems</i></li> <li>▪ <i>Communications of the ACM</i></li> </ul> | <ul style="list-style-type: none"> <li>▪ <i>Database</i></li> <li>▪ <i>Decision Sciences Journal</i></li> <li>▪ <i>Empirical Software Engineering</i></li> <li>▪ <i>Group Decision and Negotiation</i></li> <li>▪ <i>IBM Systems Journal</i></li> </ul> |
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- *IEEE Expert*
- *IEEE Software*
- *IEEE Transactions on Computers*
- *IEEE Transactions on Knowledge and Data Engineering*
- *IEEE Transactions on Software Engineering*
- *IEEE Transactions on Systems, Man, and Cybernetics Information and Management*
- *Information Processing Letters*
- *Information and Software Technology*
- *Information Systems*
- *Information Systems Research*
- *INFORMS Journal on Computing*
- *International Journal of Flexible Manufacturing Systems*
- *Journal of the American Society for Information Science and Technology*
- *Journal of Computer and Information Sciences*
- *Journal of Computing and Information Technology*
- *Journal of Data and Knowledge Engineering*
- *Journal of High Technology Management Research*
- *Organizational Computing*
- *Management Information Systems Quarterly*
- *Management Science*
- *OR Spektrum*
- *Software Practice and Experience*

### **Officer and Participant in Conferences and Workshops (Selected Activities in Past 5 Years)**

- *36th Annual Hawaii International Conference on System Sciences*, Hawaii, January 2003.
  - Mini-track Co-Chair, "Testing and Certification of Trustworthy Systems"
- *First NSF/NIJ Symposium on Intelligence and Security Informatics*, Tucson, AZ, June 2003.
  - Session Chair for "Cybercrime and Deception Detection"
- *International Conference on Intelligent and Adaptive Systems and Software Engineering*, San Francisco, July 2003.
  - Program Committee Member
- *America's Conference on Information Systems (AMCIS'03)*, Tampa, August 2003.
  - General Conference Co-Chair
- *Workshop on Information Technologies and Systems (WITS'03)*, Seattle, December 2003.
  - Program Committee Member
  - Organized and Moderated Panel on "Journal Outlets for Technical IS Research: Do We Need a New Journal?"
- *37th Annual Hawaii International Conference on System Sciences*, Hawaii, January 2004.
  - Mini-track Co-Chair, "Testing and Certification of Trustworthy Systems"
- *IEEE 8<sup>th</sup> International Symposium on High-Assurance Systems*
  - Vice Program Chair
  - Session Chair for "NISTP Full Paper Track"
- *Second Intelligence and Security Informatics Symposium (ISI-2004)*, Tucson, AZ, June 2004.
  - Program Committee Member
- *IEEE International Conference on Web Services (ICWS)*, San Diego, CA, July 2004.
  - Program Committee Member
- *America's Conference on Information Systems (AMCIS'04)*, New York City, August 2004.
  - Panel Member, "SA&D and Database: Should We be Researching What We are Teaching?"
- *38th Annual Hawaii International Conference on System Sciences*, Hawaii, January 2005.
  - Mini-track Co-Chair, "Testing and Certification of Trustworthy Systems"
- *Third Annual Cyber Security Summit 2005*, St. Petersburg, FL, February 2005.
  - Co-Organizer with Raymond James and the FBI
- *Winter Information Systems Conference on Enabling Business Intelligence*, Univ. of Utah, March 2005.
  - Plenary Panel Member, "Defining the Research Agenda for Business Intelligence"
  - Paper Discussant
- *Workshop on Information Technologies and Systems (WITS'05)*, Las Vegas, December 2005.
  - Program Committee Member and Chair of Best Paper Selection Committee
  - Participated on Panel "The Past, Present, and Future of Design Science Research"
- *39th Annual Hawaii International Conference on System Sciences*, Hawaii, January 2006.
  - Workshop Co-Chair, "Next Generation Software Engineering: Transformation to a Computational Engineering Discipline"
- *Fourth Annual Cyber Security Summit 2006*, St. Petersburg, FL, February 2006.
  - Co-Organizer with Raymond James and the FBI
- *First International Conference on Design Science Research in Information Systems and Technology*, Claremont, CA, February 2006.
  - Program Co-Chair
  - Panel Moderator, "Design Science Perspectives"

- *INFWEST Design Science Research Seminar*, Tampere, Finland, August 2006.
  - Invited Keynote Speaker and Lecturer
- Dedication Ceremonies for the Lawson Computer Science building at Purdue University, September 14-15, 2006
  - Panel Member, Computer Science Alumni Panel
- *Workshop on Information Technologies and Systems (WITS'06)*, Milwaukee, December 2006.
  - Participated on Panel “Research Funding and Collaboration Opportunities”
- *International Conference on Information Systems (ICIS 2006)*, Milwaukee, WI, December 2006.
  - Senior Editor for the Design Science Track
- *40th Annual Hawaii International Conference on System Sciences*, Hawaii, January 2007.
  - Minitrack Co-Chair, "Next Generation Software Engineering"
- *International Expert Panel on Software Business*, Volendam, The Netherlands, January 2007.
  - Research Presentations and Panel Discussions
- *NSF Science of Design Workshop*, Arlington, VA, March 2007.
  - Program Manager of Science of Design Program at NSF
- *Workshop on Advances & Innovations in Systems Testing*, Memphis, TN, May 2007.
  - Keynote Address on “Function Extraction and the Future of Testing”
- *Second International Conference on Design Science Research in Information Systems and Technology*, Pasadena, CA, May 2007.
  - Keynote Address on “Design Research: Forward Ho!”
  - Participated on Panel, “Scope of Design Science Research: How Wide a Net?”
- *29th International Conference on Software Engineering*, Minneapolis, MN, May 2007.
  - Participated on Panel, “NSF Software Engineering Investigators Session”
- *15th European Conference on Information Systems (ECIS)*, St. Gallen, Switzerland, June 2007.
  - Keynote Address on “Design Research: Relevant and Rigorous”
  - Participated on Panel, “Is Design Research the Answer to the Relevance Problem?”
- *International Conference on Information Systems Development (ISD2007)*, Galway, Ireland, August 2007.
  - Program Committee member
- *Decision Sciences Institute Conference (DSI 2008)*, Phoenix, AZ, November 2007.
  - Presentation and Panel on “Funding Opportunities at NSF”
- *Workshop on Information Technologies and Systems (WITS'07)*, Montreal, December 2007.
  - Participated on Panel “Web 2.0 and Beyond- What's Hot and What's Not: Challenging IS Research Issues”
  - Luncheon Presentation on “Funding Opportunities at NSF”
- *International Conference on Information Systems (ICIS 2007)*, Montreal, December 2007.
  - Associate Editor for the Design Science Track

#### **Invited University Research Seminars (Selected Activities in Past 5 Years)**

- Ball State University, September 14, 2006
- University of Southern California, October 25, 2006
- University of Washington, October 27, 2006
- University of Minnesota, December 15, 2006
- University of Maryland at Baltimore County, March 13, 2007
- University of Florida, April 19, 2007
- Pennsylvania State University, April 27, 2007
- University of Maryland at College Park, October 5, 2007
- Georgia Institute of Technology, October 12, 2007
- University of Texas at Austin, October 24, 2007
- Southern Methodist University, October 25, 2007
- University of Texas at Dallas, October 26, 2007
- University of Arizona, November 16, 2007
- Arizona State University, November 19, 2007
- Virginia Commonwealth University, November 30, 2007
- University of Nevada at Reno, March 10, 2008

#### **Referee for Numerous Conferences and Workshops**

##### **Government Service**

- Program Manager, National Science Foundation, 2006-2008

March 2008

- Reviewer, Research Proposals to National Science Foundation
- Reviewer, Research Proposals to Department of Energy

### Book Reviewer

- Academic Press, Inc.
- Addison-Wesley Publishing Company, Inc.
- Harcourt Brace Jovanovich, Inc.
- Holt, Rinehart, and Winston, Inc.
- IEEE Computer Society Press, Inc.
- John Wiley and Sons, Inc.
- Little, Brown and Company
- MacMillan Publishing Company, Inc.
- Prentice-Hall, Inc.
- PWS Publishing Company

### Professional Honors

- IEEE Computer Society Certificates of Appreciation
  - For excellent service as an Associate Editor of *Database Engineering*, Presented at *IEEE Computer Society Computer Conference (COMPCON) 1983*, Washington D.C., September 27, 1983.
  - In recognition of outstanding service as Vice Program Chair of the *IEEE 8<sup>th</sup> International Symposium on High-Assurance Systems*, March 2004.
- Plaque in Recognition for Distinguished Service and Personal Dedication. Presented at the *Data Processing Management Association (DPMA) Workshop*, George Mason University, November 30, 1984.
- Plaques in Recognition of Service to *Workshop on Information Technology and Systems*, Workshop Co-Chair 1993, Best Paper Chair 2005.
- Plaque in Recognition of Service to *Americas Conference on Information Systems (AMCIS)*, Conference Co-Chair, 2003.
- Certificate of Appreciation for Outstanding Support from the MIS Society, Univ. of South Florida, December 3, 1996.
- Certificate of Appreciation for Outstanding Service to Lee Academy, 1999 and 2000.
- Selected for *2000 Outstanding Intellectuals of the 20<sup>th</sup> Century*, International Biographical Centre, Cambridge, England, 2000.
- Selected for *Outstanding People of the 20<sup>th</sup> Century*, International Biographical Centre, Cambridge, England, 2000.
- Selected for *American Men and Women of Science*, Thomson Gale, 1986, 1994, and 2006.
- Selected for *Dictionary of International Biography*, International Biographical Centre, Cambridge, England, 1994, 1998, and 2000.
- Selected for *International Directory of Distinguished Leadership*, 1987.
- Selected for *International Who's Who of Professionals*, 1997.
- Selected for *Lexington Who's Who, 2000/2001 Millennium Edition*, 2000.
- Selected for *Madison Who's Who of Executives and Professionals*, 2005-2006 Edition, 2005.
- Selected for *Sterling Who's Who Directory, Executive Edition*, 1995-96.
- Selected for *Strathmore's Who's Who*, 2004.
- Selected for *Who's Who in America*, Marquis Who's Who, Inc., 2000, 2002, 2004 and 2007.
- Selected for *Who's Who in American Education*, Marquis Who's Who, Inc., 1990, 2004, and 2007.
- Selected for *Who's Who in the East*, Marquis Who's Who, Inc., 1990, 1991, 1992, and 1993.
- Selected for *Who's Who of Emerging Leaders in America*, Marquis Who's Who, Inc., 1992 and 1993.
- Selected for *Who's Who in Finance and Business*, Marquis Who's Who, Inc., 2005, 2007, and 2009.
- Selected for *Who's Who in Frontier Science and Technology*, Marquis Who's Who, Inc., 1983.
- Selected for *Who's Who in Science and Engineering*, Marquis Who's Who, Inc., 1996.
- Selected for *Who's Who in Society*, American Publishing, 1986.
- Selected for *Who's Who in the South and Southeast*, Marquis Who's Who, Inc., 1996.
- Selected for *Who's Who in the South and Southwest*, Marquis Who's Who, Inc., 1997-1998.
- Selected for *Who's Who in Technology*, 7th edition, Gale Publishing, 1996.
- Selected for *Who's Who in Technology Today*, J. Dick Publishing, 1985.
- Selected for *Who's Who in the World*, Marquis Who's Who, Inc., 2004, 2006, and 2007.

## University Service

### The University of South Florida, Tampa Campus

#### Campus Committees

- The Endowed Chair/Distinguished University Professor Group, 1994 - Present.
- Phi Beta Kappa Faculty Group, 1996 - Present.
- Search Committee Member for Associate Provost and Dean of Graduate School, 2004 - 2006.

- Ad-hoc Member on the Standing Committee on Research Misconduct, 2006.
- Graduate Studies Vision Taskforce, 2004.
- University Discipline Committee for Review of Distinguished University Professor, 2001
- Research Advisory Committee for USF, 1999 – 2000.
- FAST Faculty Input Committee, 2002 – 2003.

#### College of Business Administration

- Member of the Computer Resources Committee, 1994-95 and 1996-97.
- Member of the AACSB Accreditation Report Writing Team, 1996-97.
- Member of the Promotion and Tenure Committee, 1996 – 2001, 2003 - 2006, Chair, 1997 and 1998.
- Member of the Professorial Excellence Program (PEP) Review Committee, 1998-99.
- Member of the NationsBank Chair in Finance Search Committee, 1999-2000.
- Member of the Research/Scholarship Committee, 2000 – 2002.

#### Information Systems and Decision Sciences Department

- Committee A, 1999–2002.
- Faculty Recruiting Committee for Information Systems.
  - Chair, 1994-95, 1996-97, 1997–98, 1998-99, and 1999-2000.
  - Member of Committee, 2000-01 and 2002-03.
- Director of the Master of Science in Management Information Systems Program and Committee, 1995 - 2006.
- Member of the Salary Inversion/Compression Committee, 1995.

### Community Service

- Member of the Tampa Bay Phi Beta Kappa Chapter, 1997-Present.
- Member of Purdue University President’s Council, 2000-Present.
- Member of the Tampa Bay Purdue Alumni Club, 1998-Present.
- Member of the Lake Magdalene United Methodist Church, Tampa, FL, 1995-Present.
- Crosswinds Ministry at USF, Board of Directors, 1998-2001.
- Member of the Lake Jovita Country Club, 2003-Present.
- Member of the Tampa Palms Country Club, 1995-2003. USTA Tennis Team, 1995-2003.
- Volunteer Teacher at Lee Academy for Gifted Education, Tampa, FL, Taught C++ Programming, 1998-2000.
- Member of Heritage Christian Church (Disciples of Christ), Silver Spring, MD, 1981-94.
  - Board of Directors, 1983-85 and 1990-94; Vice President, 1985 and 1992.
  - Adult Leader for Christian Youth Fellowship (CYF), 1982-85.
  - Church Elder, 1987-89.
  - Stewardship and Finance Committee, 1990-93; Chair, 1992-93.
  - Sunday School Teacher for Adult Class, 1993-94.
- Atholton Youth Recreation Association (AYRA), Columbia, MD. Team Manager for T-Ball, 1992 and 1993.
- Soccer Association of Columbia, Inc. (SAC), Columbia, MD. Team Coach for 5/6 Year-Old Girls Soccer Clinic, 1992-93, 7 Year-Old Girls Soccer, 1993-94.