

VITA

Alan Raymond Hevner

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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

- Distinguished University Professor, University of South Florida. The highest USF honor recognizing pioneering, seminal, and distinctive contributions in teaching, research, scholarship, creative activity, and professional service. 2017.
- Parnas Fellow at Lero, the Irish Software Research Centre, University of Limerick, 2017-2018.
- Association for Information Systems (AIS) Fellow, 2015.
- Schoeller Senior Fellow, Dr. Theo and Friedl Schoeller Research Center for Business and Society, Friedrich Alexander Universitat Erlangen-Nurnberg, Germany, 2014-2017.
- American Association for the Advancement of Science (AAAS) Fellow, 2011. Citation: Dr. Alan R. Hevner is elected as an AAAS Fellow for his distinguished research contributions to the field of computer sciences, particularly in the areas of design science research, Cleanroom software engineering, and distributed database systems.
- Lifetime Achievement Award for Contributions to Design Science Research, 2009.
- Purdue University Department of Computer Science Outstanding Alumnus Award, 2007.
- Purdue University ROTC Hall of Fame, 2001.
- 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

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

November 2017

June 2006 – June 2009

Program Manager, Computer and Information Science and Engineering (CISE) Directorate, National Science Foundation (NSF) – Programs managed: Software Engineering Core, Science of Design, Creative IT, and Software for Real-World Systems

August 1981 - July 1994

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

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

September 1979 - June 1981

Assistant Professor, Department of Computer Science, University of Minnesota

January 1976 - May 1979

Graduate Instructor, Department of Computer Science, Purdue University

Summer 1978

Adjunct Faculty in 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

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 Systems Design
- Distributed Data Processing and Distributed Database Systems
- Telecommunications
- Security and Control of Information Systems
- Information Systems Analysis and Design
- Software Engineering
- Software Architecture
- Software Testing
- Seminars on Database Systems Research
- Seminars on Advanced Topics on Information Systems Development
- Seminars on Foundations of Management Information Systems Research
- Seminars on Computational Methods in Information Systems Research
- Seminars on Design Science Research in Information Systems

Scholarly Impacts

Scholarly impact metrics using Google Scholar as a data source: (September 2017)

- Citations = 17,211
- h-index = 37
- i10-index = 81

Research Publications

Books, Book Chapters, and Edited Works

1. A. Maedche, J. vom Brocke, and A. Hevner, Editors, *Designing the Digital Transformation*, Proceedings of the 12th International Conference on Design Science Research in Information Systems and Technology (DESRIST 2017), Karlsruhe, Germany, Springer November 2017

Lecture Notes in Computer Science Volume 10243, 2017.

2. A. Hevner, "Design Science Research," Chapter 29 in *Information Systems and Information Technology, Volume 2* (Computing Handbook, Third Edition) edited by H. Topi and A. Tucker. Boca Raton: Chapman and Hall/CRC, 2014.
3. A. Hevner and P. Zhang, Editors, "Introduction to the AIS THCI Special Issue on Design Research in Human-Computer Interaction (HCI)," *AIS Transactions on Human-Computer Interaction* (3)2, 2011, pp. 56-61.
4. A. Yassin and A. Hevner, "The How's and Why's of Information Markets," Chapter 1 in *Advances in Computers*, Vol. 82, Edited by M. Zelkowitz, Elsevier, Inc., 2011, pp. 1-23.
5. S. Gregor and A. Hevner, Editors, "Editorial: Introduction to the Special Issue on Design Science," *Journal of Information Systems and E-Business Management*, Vol. 9, 2011, pp. 1-9.
6. A. Hevner and S. Chatterjee, *Design Research in Information Systems: Theory and Practice*, Integrated Series in Information Systems, Vol. 22, Springer, New York, 2010.
7. A. Hevner, D. Zhang, and J.L. Zhao, Editors, "Guest Editorial: Introduction to the Special Issue on Modeling and Implementation of Service Enterprise Systems," *IEEE Transactions on Services Computing*, Vol. 3, No. 2, April-June 2010, pp. 86-88.
8. A. Hevner, R. Linger, M. Pleszkoch, S. Prowell, and G. Walton, "Flow-Service-Quality (FSQ) Engineering: A Discipline for Developing Systems of Systems," Chapter 2 in *Systems Analysis and Design: Techniques, Methodologies, Approaches, and Architectures*, Edited by R. Chiang, K. Siau, and B. Hardgrave, Advances in Management Information Systems Monograph Series, M.E. Sharpe, Inc., 2009.
9. R. Winter, H. Krcmar, E. Sinz, S. Zelewski, and A. Hevner, "What in Fact is Fundamental Research in Business and Information Systems Engineering?" *Business & Information Systems Engineering*, Vol. 1, No. 2, January 2009.
10. A. Hevner, "Interview with Alan R. Hevner on Design Science," *Business & Information Systems Engineering*, Vol. 1, No. 1, January 2009.
11. A. Hevner, Volume Editor, "Design Science Theories and Research Practices" Volume III in the *SAGE Major Currents in Information Systems Series*, Editors – L. Willcocks and A. Lee, SAGE Publications, Inc., Thousand Oaks, CA, 2008.
12. 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.
13. R. Winter, R. Baskerville, U. Frank, A. Heinzl, A. Hevner, and J. Venable, "Relevance and Rigour – What are Acceptable Standards and How are They Influenced? – A Debate," *Wirtschaftsinformatik*, Vol. 49, No. 5, October 2007, pp. 403-409.
14. 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.
15. J. Iivari, J. Parsons, and A. Hevner, Editors, "Research in Information Systems Analysis and Design: Introduction to the Special Theme Papers," *Communications of the AIS*, Vol. 16, December 2005.
16. 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.
17. 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.
18. A. Hevner and S. March, "Editorial Statement: Information Technology and Systems (ITS) Department," *Communications of the AIS*, Vol. 13, 2003, pp. 108-110.
19. 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.
20. 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.
21. A. Hevner and G. Koehler, Editors, *Proceedings of the Second Annual INFORMS Conference on Information Systems and Technology*, San Diego, May 1997.
22. 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.
23. 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.
24. A. Hevner and N. Kamel, Editors, *Proceedings of the Third Annual Workshop on Information Technology and Systems (WITS'93)*, Orlando, December 1993.
25. 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.

26. 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.
27. 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.
28. 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.
29. 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.
30. 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. Langley, North-Holland, 1986, pp. 172-179.
31. 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.
32. 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.
33. W. Kim, D. Batory, A. Hevner, R. Katz, and D. Reiner, Editors, *Database Engineering, Vol. 1*, IEEE Computer Society Press, 1983.
34. A. Hevner, Editor, Special issue on "Research Directions in Distributed Database Systems," *Database Engineering*, Vol. 5, No. 4, December 1982.

Refereed Journals

1. A. Barfar, B. Padmanabhan, and A. Hevner, "Applying Behavioral Economics in Predictive Analytics for B2B Churn: Findings from Service Quality Data," to appear in *Decision Support Systems*, 2017.
2. H. Nuseibeh, A. Hevner, and R.W. Collins, "What can be Controlled: Actionable ICT4D in the Case of Palestine," *Information Technology for Development*, published on-line, July 2017.
3. J. Sjoström, P. Agerfalk, and A. Hevner, "Scrutinizing Privacy and Accountability in Online Psychosocial Care," *IT Professional*, 19(3), IEEE Computer Society, May/June 2017, pp. 45-51, doi: 10.1109/MITP.2017.44 .
4. A. Hevner, "Intellectual Control of Complexity in Design Science Research," in A. Rai, "Editor's Comments: Diversity of Design Science Research," *Management Information Systems Quarterly* (41:1), March 2017, pp. iii-xviii.
5. R. Naidoo, A. van der Merwe, A. Gerber, and A. Hevner, "A Social Representations Analysis of Design Science Research," *South African Computer Journal*, Vol. 56, 2015, 17 pages.
6. C. LeRouge, M. Garfield, and A. Hevner, "Patient Perspectives of Telemedicine Quality," *Journal of Patient Preference and Adherence*, December 2014, 2015:9, pp. 25-40.
7. R. Riedl, R. Davis, and A. Hevner, "Towards a NeuroIS Research Methodology: Intensifying the Discussion on Methods, Tools, and Measurement," *Journal of the Association for Information Systems (JAIS)*, Vol. 15, Special Issue, October 2014, pp i-xxxv.
8. S. Gregor and A. Hevner, "The Knowledge Innovation Matrix (KIM): A Clarifying Lens for Innovation," *Informing Science: The International Journal of an Emerging Transdiscipline*, 17, 2014, pp. 217-239.
9. A. Hevner, C. Davis, R.W. Collins, and T.G. Gill, "A NeuroDesign Model for IS Research," *Informing Science: The International Journal of an Emerging Transdiscipline*, 17, 2014, pp. 103-132.
10. T.G. Gill and A. Hevner, "A Fitness-Utility Model for Design Science Research," *ACM Transactions on Management Information Systems*, Vol. 4, No. 2, Article 5, August 2013, 24 pages.
11. S. Gregor and A. Hevner, "Positioning and Presenting Design Science Research for Maximum Impact," *Management Information Systems Quarterly*, Vol. 37, No. 2, June 2013, pp. 337-355.
12. M. Tremblay, A. Hevner, and D. Berndt, "Design of an Information Volatility Measure for Health Care Decision Making," *Decision Support Systems*, Vol. 52, No. 2, January 2012, pp. 331-341.
13. B. Padmanabhan, A. Hevner, M. Cuenco, and C. Shi, "From Information to Operations: Service Quality and Customer Retention," *ACM Transactions on Management Information Systems*, Vol. 2, No. 4, Article 21, December 2011, 21 pages.
14. M. Cuenco, C. Shi, B. Padmanabhan, and A. Hevner, "Challenges with Churn," *ASQ Six Sigma Forum Magazine*, Vol. 11, No. 1, November 2011, pp. 20-26.
15. M. Tremblay, A. Hevner, and D. Berndt, "Focus Groups for Artifact Refinement and Evaluation in Design Research," *Communications of the Association for Information Systems*, Vol. 26, Article 27, June 2010, pp. 599-618.
16. M. Harris, R. Collins, and A. Hevner, "Control of Flexible Software Development under Uncertainty," *Information Systems Research: Special Issue on Flexible and Distributed Information Systems Development*, September 2009, pp. 400-419.
17. M. Harris, A. Hevner, and R. Collins, "Controls in Flexible Software Development," *Communications of the Association for Information Systems*, Vol. 24, Article 43, 2009, pp. 757-776.

18. F. Land, C. Loebbecke, A. Angehrn, E. Clemons, A. Hevner, and G. Mueller, "ICIS 2008 Panel Report: Design Science in Information Systems: Hegemony, Bandwagon, or New Wave," *Communications of the Association for Information Systems*, Vol. 24, Article 29, 2009, pp. 501-508.
19. S. Puroo, C. Baldwin, A. Hevner, V. Storey, J. Pries-Heje, B. Smith, and Y. Zhu, "The Sciences of Design: Observations on an Emerging Field," *Communications of the Association for Information Systems*, Vol. 23, Article 29, 2008, pp. 523-546.
20. 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*, Vol. 50, No. 11, October 2008, pp. 1165-1179.
21. M. Pleszkoch, R. Linger, and A. Hevner, "Introducing Function Extraction into Software Testing," *The Data Base for Advances in Information Systems*, Vol. 39, No. 3, August 2008, pp. 41-50.
22. A. Hevner, "A Three Cycle View of Design Science Research," *Scandinavian Journal of Information Systems*, Vol. 19, No. 2, 2007, pp. 87-92.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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.
32. 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 Thomson-ISI Essential Science Indicators as the Fast Breaking Paper for Business and Economics for October 2005. Author Commentary at <http://www.esi-topics.com/fbp/2005/october05-AlanRHevner.html> .
 - Selected by Thomson-Reuters Science Watch as the Emerging Front Paper for Business and Economics for August 2008. Author Commentary at: <http://sciencewatch.com/sciencewatch/dr/erf/2008/08augerf/08augerfHevET/> .
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.
39. 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.
40. 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).

41. 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.
42. 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.
43. A. Hevner, "Phase Containment Metrics for Software Quality Improvement," *Information and Software Technology*, Vol. 39, No. 13, December 1997, pp. 867-877.
44. 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.
45. 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.
46. 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.
47. 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.
48. A. Hevner and H. Mills, "Box-Structured Requirements Determination Methods," *Decision Support Systems*, Vol. 13, No. 3/4, March 1995, pp. 223-239.
49. 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.
50. A. Hevner and H. Mills, "Box Structured Methods for Systems Development with Objects," *IBM Systems Journal*, Vol. 32, No. 2, 1993, pp. 232-251.
51. 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.
52. A. Hevner, S. Becker, and L. Pedowitz, "Integrated CASE for Cleanroom Development," *IEEE Software*, Vol. 9, No. 2, March 1992, pp. 69-76.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. 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.
59. 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.
60. D. Power and A. Hevner, "Executive Workstations: Issues and Requirements," *Information and Management*, Vol. 8, No. 4, April 1985, pp. 213-220.
61. 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.
62. 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.
63. 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.

64. 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. Mullarkey and A. Hevner, "Elaborating the Action Design Research Method," submitted to *European Journal of Information Systems*.
2. J. Sjoström, P. Agerfalk, and A. Hevner, "A Design Theory of Scrutiny for Information Systems," submitted to *MISQ*.
3. O. Malgonde and A. Hevner, "Effectual Application Development on Digital Platforms," submitted to *Electronic Markets*.
4. R. Linger and A. Hevner, "Flow Semantics for Intellectual Control in Smart City IoT Systems," submitted to *Journal of Information Technology Theory and Application*.

Refereed Proceedings

1. R. DeSerranno, M. Mullarkey, and A. Hevner, "Building a Semantic Ontology for Internet of Things (IoT) Systems," *Proceedings of the IX Seminar on Ontology Research in Brazil (ONTOBRAS 2017)*, Brasilia, Brazil, August 2017.
2. R. DeSerranno, M. Mullarkey, and A. Hevner, "Evaluation of a Commercial IoT Platform," *Proceedings of the America's Conference on Information Systems (AMCIS 2017)*, Boston, August 2017.
3. C. Davis, A. Hevner, E. Labonte-LeMoyné, and P.M. Leger, "Expertise as a Mediating Factor in Conceptual Modeling," *Information Systems and Neuroscience: Gmunden Retreat on NeuroIS*, Springer, Gmunden, Austria, June 2016.
4. O. Malgonde and A. Hevner, "Finding Evidence for Effectual Application Development on Digital Platforms," *Proceedings of the Design Science Research in Information Systems and Technology (DESRIST 2017)*, Karlsruhe, June 2017, pp. 330-347.
5. R. Linger and A. Hevner, "Flow Semantics for Intellectual Control in Smart City IoT Systems," *Workshop on IoT and Smart City Challenges and Applications*, Dublin, December 2016.
6. S. Gregor and A. Hevner, "The Digital Innovation Design Activities Wheel," *SIGPrag Workshop on Practice-based Design and Innovation of Digital Artifacts*, Dublin, December 2016.
7. M. Mullarkey and A. Hevner, "The Creative Process in Design Science Research: Patterns of Creative Development," *SIGPrag Workshop on Practice-based Design and Innovation of Digital Artifacts*, Dublin, December 2016.
8. O. Malgonde and A. Hevner, "An Effectual Approach for the Development of Novel Applications on Digital Platforms," *Workshop on Information Technology and Systems (WITS)*, Dublin, December 2016.
9. T. Papp, C. Daniels, M. Mullarkey, and A. Hevner, "CrashApp – Designing a Mobile Application with Multiple Stakeholder Goals," *Workshop on Information Technology and Systems (WITS)*, Dublin, December 2016.
10. C. Davis, A. Hevner, and B. Weber, "Studying the Creation of Design Artifacts," *Information Systems and Neuroscience: Gmunden Retreat on NeuroIS*, Springer, Gmunden, Austria, June 2016.
11. A. Drechsler and A. Hevner, "A Four-Cycle Model of IS Design Science Research: Capturing the Dynamic Nature of Socio-Technical Design," *Proceedings of the Design Science Research in Information Systems and Technology (DESRIST 2016)*, St. Johns, NF, May 2016.
12. A. Drechsler, A. Hevner, and G. Gill, "Beyond Rigor and Relevance: Exploring Artifact Resonance," *Proceedings of the 49th Annual Hawaii International Conference on System Sciences (HICSS49)*, Hawaii, January 2016.
13. C. Davis and A. Hevner, "Neurophysiological Analysis of Visual Syntax in Design," *Information Systems and Neuroscience: Gmunden Retreat on NeuroIS*, Springer, Gmunden, Austria, June 2015, pp. 99-106.
- Hermann Zemlicka Award for the most visionary paper.
14. S. Gregor and A. Hevner, "The Front End of Innovation: Perspectives on Creativity, Knowledge, and Design," *New Horizons in Design Science: Broadening the Research Agenda - Proceedings of the Design Science Research in Information Systems and Technology (DESRIST 2015)*, Springer, Dublin, May 2015, pp. 249-263.
15. M. Mullarkey and A. Hevner, "Entering Action Design Research," *New Horizons in Design Science: Broadening the Research Agenda - Proceedings of the Design Science Research in Information Systems and Technology (DESRIST 2015)*, Springer, Dublin, May 2015, pp. 121-134.
16. A. Drechsler and A. Hevner, "Effectuation and its Implications for Socio-Technical Design Science Research in Information Systems," *Proceedings of the Design Science Research in Information Systems and Technology (DESRIST 2015)*, Dublin, May 2015.
17. O. Malgonde, A. Hevner, and R. Collins, "Planning a Portfolio of Controls for Software Development," *Proceedings of the Design Science Research in Information Systems and Technology (DESRIST 2015)*, Dublin, May 2015.
18. M. Mullarkey and A. Hevner, "Establishing Multiple Entry Points for Action Design Research," *Proceedings of the Workshop on Business Processes and Services (SIGBPS 2014)*, Auckland, NZ, December 2014.
19. A. Hevner and J. Anderson, "Design Science and Innovation Practice: A Delphi Study," *Proceedings of the European Design*

- Science Symposium* (EDSS 2013), Springer CCIS 447, pp. 21-27, 2014.
20. J. Sjoström, P. Agerfalk, and A. Hevner, "Privacy and Accountability in Online Communities: Towards a Theory of Scrutiny," *Proceedings of the European Design Science Symposium* (EDSS 2013), Springer CCIS 447, 2014.
 21. O. Malgonde, R.W. Collins, and A. Hevner, "Applying Emergent Outcome Controls to Mitigate Time Pressure in Agile Software Development," *Proceedings of the America's Conference on Information Systems* (AMCIS 2014), Savannah, August 2014.
 22. J. Sjoström, P. Agerfalk, and A. Hevner, "The Design of a Multi-Layer Scrutiny Protocol to Support Online Privacy and Accountability," *Proceedings of the Design Science Research in Information Systems and Technology* (DESRIST 2014), Miami, May 2014.
 23. M. Mullarkey, A. Hevner, and R. Collins, "Inter-Organizational Social Networks: An Action Design Research Study," *Proceedings of the AIS SIG on Pragmatist IS Research* (SIGPrag 2013), Milan, December 2013.
 24. A. Barfar, A. Hevner, and B. Padmanabhan, "Rationality in Organizational Decision-Making: An Empirical Study in Service Operations," *Proceedings of the Workshop on Information Technology and Systems* (WITS 2013), Milan, December 2013.
 25. A. Barfar, A. Hevner, and B. Padmanabhan, "Consumer Switching Behaviors: An Empirical Study of Perceived and Real Pain," *Utah Winter Conference on Business Intelligence*, Salt Lake City, UT, March 2013.
 26. A. Hevner, B. Donnellan, and J. Anderson, "The DRIVES (Design Research for Innovation Value, Evaluation, and Sustainability) Model of Innovation," *Proceedings of the European Design Science Symposium* (EDSS 2012), Springer CCIS 388, pp. 144-154, 2013.
 27. A. Hevner and R. Linger, "Dynamic Systems Security Testing using Function Extraction," *Sixth International Workshop on Advances and Innovations in Software Testing*, Memphis, July 2012.
 28. B. Padmanabhan, A. Hevner, A. Barfar, M. Cuenco, and C. Shi, "Exploring Churn," *Utah Winter Conference on Business Intelligence*, Salt Lake City, UT, March 2012.
 29. J. Anderson, B. Donnellan, and A. Hevner, "Exploring the Relationship between Design Science Research and Innovation: A Case Study of Innovation at Chevron," *Proceedings of the European Design Science Symposium* (EDSS 2011), Springer CCIS 286, pp. 116-131, 2012.
 30. D. Berndt, A. Hevner, and B. Padmanabhan, "Research Issues in Cloud Computing," *Proceedings of the Tenth Symposium on Research in Systems Analysis and Design* (SIGSAND 2011), Bloomington, IN, June 2011.
 31. T.G. Gill and A. Hevner, "A Fitness-Utility Model for Design Science Research," *Proceedings of the Design Science Research in Information Systems and Technology* (DESRIST 2011), Milwaukee, WI, May 2011.
 - Herbert A. Simon Award for the Best Paper at DESRIST 2011
 32. A. Hevner, B. Padmanabhan, J. Cheng, M. Cuenco, and C. Shi, "Using Operational Business Intelligence to Inform Systems Testing," *Proceedings of the Fifth Workshop on Advances and Innovations in Software Testing*, Memphis, TN, May 2011.
 33. B. Padmanabhan, A. Hevner, M. Cuenco, and C. Shi, "From Information to Operations: Service Quality and Customer Retention," *Utah Winter Conference on Business Intelligence*, Salt Lake City, UT, March 2011.
 34. R. Collins, A. Hevner, and R. Linger, "Evaluating a Disruptive Innovation: Function Extraction Technology in Software Development," *Proceedings of the 44th Annual Hawaii International Conference on System Sciences* (HICSS44), Hawaii, January 2011.
 35. A. Hevner, B. Padmanabhan, J. Cheng, M. Cuenco, and C. Shi, "The Impacts of Service Quality Indicators on Customer Churn: A Data Mining Approach," *Proceedings of the Fourth Workshop on Advances and Innovations in Software Testing*, Memphis, TN, May 2010.
 36. A. Hevner and B. Padmanabhan, "Impact of Service Quality Indicators on Customer Churn: A Data Mining Based Approach," *Utah Winter Conference on Business Intelligence*, Salt Lake City, UT, March 2010.
 37. M. Harris, R. Collins, and A. Hevner, "Agile Methods: Fast-Paced, but How Fast?" *America's Conference on Information Systems* (AMCIS 2009), San Francisco, CA, August 2009.
 38. M. Harris, A. Hevner, and R. Collins, "Management of Software Product Development, Innovation, and Adaptability," *America's Conference on Information Systems* (AMCIS 2009), San Francisco, CA, August 2009.
 39. M. Tremblay, D. Berndt, and A. Hevner, "Measuring Information Volatility in a Health Care Information Supply Chain," *Proceedings of the Design Science Research in Information Systems and Technology* (DESRIST 2009), Philadelphia, PA, May 2009.
 40. A. Hevner and B. Padmanabhan, "Detecting Software Errors Using Data Mining on Business Process Logs," *Proceedings of the Third Workshop on Advances and Innovations in Software Testing*, Memphis, TN, May 2009.
 41. 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.
 42. 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.
 43. 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.

44. 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 40th Annual Hawaii International Conference on System Sciences (HICSS40)*, Hawaii, January 2007.
45. M. Tremblay, D. Berndt, R. Collins, and A. Hevner, "Uncertainty in the Information Supply Chain: Integrating Multiple Data Sources," *4th Annual CABIT Symposium*, Phoenix, AZ, September 2006.
46. 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.
47. M. Harris, A. Hevner, and R. Collins, "Controls in Flexible Software Development," *Proceedings of the 39th Annual Hawaii International Conference on System Sciences (HICSS39)*, Hawaii, January 2006.
48. C. LeRouge and A. Hevner, "It's More than Just Use: An Investigation of Telemedicine Use Quality," *Proceedings of the 38th Annual Hawaii International Conference on System Sciences (HICSS38)*, Hawaii, January 2005.
49. 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.
50. A. Hevner and R. Linger, "The Design of Complex Software-Intensive Systems: A Quest for Intellectual Control," *Proceedings of the 3rd AIS SIGSAND Workshop*, St. Johns, Newfoundland, June 2004.
51. 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.
52. 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.
53. 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.
54. 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 37th Annual Hawaii International Conference on System Sciences (HICSS37)*, Hawaii, January 2004.
- Best Paper Award for the Healthcare Systems Track.
55. 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.
56. 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.
57. M. Douglas, A. Hevner, and R. Collins, "The Impacts of Process Structure, Communication, and Coordination on Software Project Estimation," *Proceedings of the 18th International Forum on COCOMO and Software Cost Modeling*, Los Angeles, October 2003.
58. 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.
59. M. Domino, R. Collins, A. Hevner, and C. Cohen, "Conflict in Collaborative Software Development," *Proceedings of SIGCPR/SIGMIS 2003 Conference*, Philadelphia, PA, April 2003.
60. 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.
61. 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.
62. 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.
63. C. LeRouge, M. Garfield, and A. Hevner, "Quality Attributes in Telemedicine Video Conferencing," *Proceedings of the 35th Annual Hawaii International Conference on System Sciences (HICSS35)*, Hawaii, January 2002.
64. 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.
65. A. Hevner, R. Linger, A. Sobel, and G. Walton, "Specifying Large-Scale, Adaptive Systems with Flow-Service-Quality (FSQ) Objects," *Proceedings of the 10th OOPSLA Workshop on Behavioral Semantics*, Tampa, October 2001, pp. 110-120.
66. R. Linger, A. Hevner, A. Sobel, and G. Walton, "Semantic Foundations for Survivable System Analysis and Design," *Information* November 2017

System Survivability Workshop, Goteborg, Sweden, July 2001.

67. 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.
68. A. Hevner, "Software Development Challenges in Electronic Commerce," *Third International Conference on Telecommunications and Electronic Commerce*, Dallas, Nov. 2000, pp. 130-138.
69. 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.
70. 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.
71. 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.
72. 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.
73. 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.
74. 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.
75. 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.
76. 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.
77. 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).
78. 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.
79. 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.
80. 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).
81. 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.
82. T. Vagoun and A. Hevner, "State-Based Testing Strategies," *Proceedings of the Pacific Northwest Software Quality Conference*, Portland, October 1994, pp. 427-443.
83. 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.
84. 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.
85. 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.
86. 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.
87. 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.
88. 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.
89. 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.
90. 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.

91. A. Hevner, "Box Structured Requirements Determination Methods," *Proceedings of the First Workshop on Information Technologies & Systems (WITS-91)*, Boston, December 1991, pp. 82-97.
92. 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.
93. 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.
94. 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.
95. 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.
96. 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.
97. M. Pleszkoch, P. Hausler, A. Hevner, and R. Linger, "Function-Theoretic Principles of Program Understanding," *Proceedings of the 23rd Annual Hawaii International Conference on System Sciences, Vol. II – Software Track*, Hawaii, January 1990, pp. 74-81.
98. 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.
99. 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, Sept. 1989, pp. 32-40.
100. 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.
- Reprinted in *Software Reengineering*, R. Arnold, editor, IEEE Computer Society Press, 1992.
101. 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.
102. 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.
103. 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.
104. 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.
105. 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.
106. 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.
107. 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.
108. 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.
109. 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.
110. 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.
111. 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.
112. 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.
- Reprinted in *Tutorial: Distributed Database Management*, J.A. Larson and S. Rahimi, eds, IEEE Computer Society Press, 1985.
113. E. Onuegbe, S. Rahimi, and A. Hevner, "Local Query Translation and Optimization in a Distributed System," *Proceedings of the 1983 National Computer Conference*, Anaheim, May 1983, pp. 229-239.
- Reprinted in *Tutorial: Distributed Database Management*, J.A. Larson and S. Rahimi, eds, IEEE Computer Society Press,

1985.

114. T. Baba, S.B. Yao, A. Hevner, and Z. Shi, "Multiprocessor Database Machine Architectures Based on Data Flow Analysis," *Proceedings of the 16th Annual Hawaii International Conference on System Sciences*, Hawaii, January 1983, pp. 235-242.
115. A. Hevner, "Methods for Data Retrieval in Distributed Systems," *Proceedings of the Second Symposium on Reliability in Distributed Software and Database Systems*, Pittsburgh, July 1982, pp. 1-10.
 - Reprinted in *Tutorial: Distributed Database Management*, J.A. Larson and S. Rahimi, eds, IEEE Computer Society Press, 1985.
116. A. Hevner and G.M. Schneider, "An Integrated Design System for Distributed Database Networks," *Proceedings of the IEEE Computer Society Fall Computer Conference 1980*, Washington D. C., September 1980, pp. 91-98.
117. A. Hevner and S.B. Yao, "Query Processing on a Distributed Database," *Proceedings of the 1978 Berkeley Workshop on Distributed Data Management and Computer Networks*, Berkeley, August 1978, pp. 91-107.
 - Reprinted in *Tutorial: Distributed Data Base Management*, P. Bernstein, J. Rothnie, and D. Shipman, editors, IEEE Computer Society, 1978.

Other Publications, Technical Reports, and Posters

1. A. Hevner, R. Collins, T.G. Gill, and C. Davis, "A NeuroDesign Model for IS Research," *Gmunden Retreat on NeuroIS*, Extended Abstract, Gmunden, Austria, June 2013.
2. A. Yassin and A. Hevner, "A Conceptual Foundation for the Study of Organizational Information Markets," *Second Annual Emerging Paradigms an Interdisciplinary Perspective Conference*, Poster, USF, April 2010.
3. A. Yassin and A. Hevner, "A Market-Based Approach for Software Projects Risk Management," *Graduate Research Symposium*, Poster, USF, October 2009.
4. S. Purao, C. Baldwin, A. Hevner, V. Storey, J. Pries-Heje, B. Smith, and Y. Zhu, "The Sciences of Design: Observations on an Emerging Field," Harvard Business School Finance Working Paper No. 09-056, October 2008. Available at SSRN: <http://ssrn.com/abstract=1281643> .
5. 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.
6. 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.
7. 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.
8. 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.
9. *MIS Interfaces*, Publication of the INFORMS Information Systems Society, "Interview with Alan Hevner," R. Mathieu, Interviewer, May 2002, <http://clh.fairfield.edu/iss> .
10. 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>.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. 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.

19. 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.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. A. Hevner, *The Optimization of Query Processing on Distributed Database Systems*, Ph.D. Thesis, Department of Computer Science, Purdue University, September 1979.

Doctoral 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, 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, 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, Univ. of South Florida, Tampa, December 2001. (Co-advisor with Prof. Rosann Webb Collins)
8. John Fisher, *Creating False Memories: Temporal Reconstruction Errors in Data Warehouses*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business, 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, 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, Univ. of South Florida, Tampa, July 2004. (Co-advisor with Prof. Rosann Webb 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, Univ. of South Florida, Tampa, May 2006. (Co-advisor with Prof. Rosann Webb 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, Univ. of South Florida, Tampa, June 2006. (Co-advisor with Prof. Rosann Webb 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, Univ. of South Florida, Tampa, July 2007. (Co-

advisor with Prof. Donald Berndt)

14. Areej Yassin, *Organizational Information Markets: Conceptual Foundation and an Approach for Software Project Risk Management*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business, Univ. of South Florida, Tampa, April 2010.
15. Matthew Mullarkey, *Inter-Organizational Social Network Information Systems: Diagnosing and Design*, Ph.D. Dissertation, Information Systems and Decision Sciences, College of Business, Univ. of South Florida, Tampa, July 2014.
16. Arash Barfar, *Rational Decision-Making in the Presence of Big Data*, Ph.D. Dissertation, Information Systems and Decision Sciences, Muma College of Business, Univ. of South Florida, Tampa, December 2015. (Co-advisor with Prof. Balaji Padmanabhan)
17. Hasan Nuseibeh, *An Information and Communication Technologies Decision (ICT4D) Framework for Building an Information Economy in Developing Countries: The Case of Palestine*, Ph.D. Dissertation, Information Systems and Decision Sciences, Muma College of Business, Univ. of South Florida, Tampa, July 2016. (Co-advisor with Prof. Rosann Webb Collins)
18. Timothy Papp, *CrashApp™ – Concurrent Multiple Stakeholder Evaluation of a DSR Artifact*, DBA Dissertation, Muma College of Business, Univ. of South Florida, Tampa, September 2017. (Co-advisor with Dr. Matthew Mullarkey)
19. Ron DeSerranno, *Enhancing the Internet of Things Architecture with Flow Semantics*, DBA Dissertation, Muma College of Business, Univ. of South Florida, Tampa, September 2017. (Co-advisor with Dr. Matthew Mullarkey)
20. Onkar Malgonde, *An Effectual Approach for the Development of Novel Applications on Digital Platforms*, Ph.D. Dissertation, Information Systems and Decision Sciences, Muma College of Business, Univ. of South Florida, expected May 2018.

I have served as a member on numerous Ph.D. and DBA Dissertation Defense Committees in Information Systems, Computer Science, Industrial Engineering, 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. Co-Principal Investigator (with S. Gregor), Knowledge and Innovation: Developing methods for innovating across disciplinary and institutional boundaries, Dr. Theo and Friedl Schoeller Research Center for Business and Society, Friedrich Alexander Universitat Erlangen-Nurnberg, Germany, 50,000 €, 2014-2017.
2. Investigator, National Science Foundation, Transforming Undergraduate Education in Science, Technology, Engineering, and Mathematics, June 2011-June 2012.
3. Principal Investigator, National Science Foundation, IPA Assignment as Program Manager in Computer and Information Science and Engineering (CISE) Directorate, \$580,000, June 2006-June 2009.
4. 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.
5. 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.
6. Co-Principal Investigator (with J. Studnicki and D. Berndt), Telecommunications and Information Infrastructure 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.
7. 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.
8. 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.
9. Principal Investigator, Funding from Westinghouse, IBM, and Publix Supermarkets, Inc., Composer Academic Program, 1992-96, \$40,000.
10. Principal Investigator, Research Contract, IBM Corporation, Research in Cleanroom Software Engineering, Funding for Doctoral Student Support and Travel, June - December 1993, \$18,500.
11. Investigator, Research Contract, Software Engineering Technology, STARS (Software Technology for Adaptable Reliable Systems) Program for Department of Defense, 1988 - 1991.
12. Principal Investigator, Research Contract, Index Technology Corporation, Research on the Application of Box Structures to CASE Environments, November 1987 - June 1989, \$16,880.
13. 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.
14. 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.
15. Co-Principal Investigator (with S.B. Yao), Research Contract, National Bureau of Standards, Performance Evaluation of Database November 2017

Management Systems on Microcomputers, Minicomputers, and Database Machines, October 1982 - April 1984.

16. 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.
17. 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.

Internal USF Grants

1. Principal Investigator, Conference Support Grant for IFIP 8.2 Conference on Research Methods, USF Office of Research & Innovation, \$2000, 2012.
2. Principal Investigator, Established Research Grant, Impacts of Service Quality Indicators on Customer Churn, USF Office of Research & Innovation, \$5000 for student research assistant, 2010-2011.

Consulting

Industry – I have done professional consulting for a wide range of industrial clients, including a number of Fortune 500 companies. Details are available upon request.

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)*, 2008-2013. MISQ is consistently ranked as the top journal in the Information Systems research field.
- Senior Editor, *Foundations and Trends in Information Systems*, 2015-Present.
- Senior Editor, *The Data Base for Advances in Information Systems*, 2006-2010.
- Associate Editor, *Information Systems and E-Business Management*, Springer Publishers, 2001-Present.
 - Guest Editor, Special Issue on Design Science, 2011
- 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.
- Editorial Board, *Health Systems*, Palgrave Macmillan, 2011 – Present.
- International Advisory Board, *International Journal of Health Information Systems and Informatics*, 2005-Present.
- Guest Editor, *IEEE Transactions on Services Computing*, Special Issue on Modeling and Management of Service-Oriented Enterprise Systems, 2010.
- Guest Editor, *AIS Transactions on Human-Computer Interaction*, Special Issue on Design Research in HCI, 2011.
- 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, *INFORMS Journal on Computing*, INFORMS, 1999–2008.
- 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 Software Engineering (SIGSOFT).

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

- Elected to Senior Member, 2004.
- Technical Committee on Data Engineering.
- 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 Fellow, 2015
- 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 Health Information Systems (SIGHEALTH)

Workshop on Information Technology and Systems (WITS)

- Executive Committee Member, 1991-2008.
 - Treasurer, 1994-98.
 - Senior Advisor, 1998-2008.

Member of the Center for National Software Studies (CNSS)

- Board of Directors, 1996-2008.

Published Reviews for Research Literature

Over 30 reviews have been published in *ACM Computing Reviews*, including several ‘starred’ reviews. A list of reviews is available upon request.

Reviewer for Research Journals

Reviewer for over 50 major journals in the fields of information systems, computer science, and software engineering.

Reviewer for Conferences and Workshops

Reviewer for numerous research conferences and workshops in the fields of information systems, computer science, and engineering.

Book Reviewer

I have reviewed books in the areas of information systems and computer science for numerous publishers.

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

- *American Association for the Advancement of Science (AAAS 2012)*, Vancouver, Canada, February 2012.
 - Received AAAS Fellow Award
- *Seventh International Conference on Design Science Research in Information Systems and Technology*, Las Vegas, May 2012.
 - Faculty Mentor for Doctoral Consortium
- *Midwest Association for Information Systems (MWAIS) Annual Conference*, Green Bay, WI, May 2012.
 - Keynote Presentation on “Knowledge Contributions in Design Science Research”
 - Participated on Panel “How does DSR contribute to IS Knowledge?”
 - Faculty Mentor for Doctoral Consortium
- *European Conference on Information Systems (ECIS 2012)*, Barcelona, Spain, June 2012.
 - Faculty Mentor for Doctoral Consortium
- *Taipei Workshop on Big Data*, Taipei, Taiwan, July 2012.
 - Keynote Presentation on “Big Data and Service Operations”
- *35th Information Systems Research Seminar in Scandinavia (IRIS 35)*, Sigtunahojden, Sweden, August 2012.
 - Keynote Presentation on “Knowledge Contributions in DSR”
 - Participated on Panel “Design Science Research: A Scandinavian Approach?”
- *Design Science Workshop*, Pretoria, South Africa, October 1, 2012.
 - Keynote Presentation on “Knowledge Contributions in DSR”
 - Participated on Panel “The Future of Design Science”
- *Illinois Conference on Business Analytics*, Univ. of Illinois, Urbana-Champaign, November 2012.
 - Keynote Presentation on “Big Data and Service Operations”
 - Participated on Panel “Big Data Needs and Developments”
- *IFIP Working Group 8.2 Conference*, Tampa, FL, December 2012.
 - General Chair of Conference
 - Participated on Panel “The Future of ICT Research”
- *American Accounting Association Information Systems Mid-Year Meeting*, Ft. Lauderdale, FL, January 2013.
 - Keynote Presentation on Design Science Research in Accounting

- *Southern AIS Conference*, Savannah, GA, March 2013.
 - Keynote Presentation on “Expanding the Impacts of Design Science Research”
- *Gmunden Retreat on NeuroIS*, Gmunden, Austria, June 2013.
 - JAIS Workshop on Special Issue “Methods, Tools, and Measurement in NeuroIS Research”
- *Eighth International Conference on Design Science Research in Information Systems and Technology*, Helsinki, Finland, June 2013.
 - Faculty Mentor for Doctoral Consortium
 - Chair of Panel, “Expanding the Reach of Design Science Research”
- *Information Systems Symposium at City University of Hong Kong*, Hong Kong, July 2013.
 - Keynote Presentation on “Expanding the Impacts of Design Science Research”
- *International Conference on Information Systems (ICIS 2013)*, Milan, Italy, December 2013.
 - Co-Chair of the Panel Track
- *Multikonferenz Wirtschaftsinformatik (MKWI 2014)*, Paderborn, Germany, February 2014.
 - Doctoral Student Workshop on Design Science Research
 - Keynote Presentation on “Expanding the Impacts of Design Science Research”
- *Ninth International Conference on Design Science Research in Information Systems and Technology*, Miami, May 2014.
 - Co-Chair of the Panel Track
- *European Conference on Information Systems (ECIS 2014)*, Tel Aviv, Israel, June 2014.
 - Faculty Mentor for Doctoral Consortium
- *America’s Conference on Information Systems (AMCIS 2014)*, Savannah, August 2014.
 - Faculty Mentor for Doctoral Consortium
- *Workshop on e-Business (WeB 2014)*, Auckland, NZ, December 2014.
 - Panel Member, “Leading Research and Teaching Opportunities in Big Data”
- *Symposium Honoring the Contributions of Dr. Detmar Straub*, Atlanta, GA, April 2015.
 - Panel Member, “Epiphanies – Seizing Them Successfully”
- *Tenth International Conference on Design Science Research in Information Systems and Technology*, Dublin, Ireland, May 2015.
 - Faculty Mentor for the Doctoral Consortium
 - Panel Member, “Toward a Consensus View of Design Science Research”
- *European Conference on Information Systems (ECIS 2015)*, Muenster, Germany, June 2015.
 - Co-Chair of the ECIS Doctoral Consortium
- *Informing Science and IT Education Conference (InSITE 2015)*, Tampa, FL, July 2015.
 - Keynote Presentation on “Designing Informing Systems: What Research Tells Us”
- *America’s Conference on Information Systems (AMCIS 2015)*, Puerto Rico, August 2015.
 - Panel Member, “Disruptive Innovations and IT: A Wicked Yet Empowering Combination”
- *International Conference on Information Systems (ICIS 2015)*, Ft. Worth, TX, December 2015.
 - Panel Member, “Artifact or Theory? – Publishing Design Science Research in IS”
- *Learning in the Technological Era: The 11th Chais Conference for the Study of Innovation and Learning Technologies*, Tel Aviv, Israel, February 2016.
 - Keynote Presentation on “The Front End of Innovation: Implications for Design and Learning”
 - Open Discussion Session with Students on Design and Innovation
- *Eleventh International Conference on Design Science Research in Information Systems and Technology*, St. Johns, NF, May 2016.
 - Keynote Presentation, “Grand Challenges in Design Science Research”
 - Panel Member, “Philosophy of Science and DSR”
- *Bled eConference*, Bled, Slovenia, June 2016.
 - Keynote Presentation on “Innovation and Design Science Research”
 - Faculty Mentor for the Doctoral Consortium
- *America’s Conference on Information Systems (AMCIS 2016)*, San Diego, August 2016.
 - Faculty Mentor for the Doctoral Consortium
 - Panel Member, “Research Directions in Internet of Things”
- *Workshop on e-Business (WeB 2016)*, Dublin, Ireland, December 2016.
 - Keynote Presentation, “Grand Challenges in Design Science Research”
- *Twelfth International Conference on Design Science Research in Information Systems and Technology*, Karlsruhe, Germany, May/June 2017.
 - Program Committee Chair
 - Panel Chair, “The Role of DSR in Digital Innovation”
- *Gmunden Retreat on NeuroIS*, Gmunden, Austria, June 2017.
 - Panel Member, “Hot Topics and the Future of NeuroIS”
- *America’s Conference on Information Systems (AMCIS 2017)*, Boston, August 2017.
 - Faculty Mentor for the Early Career Faculty Consortium
- *International Symposium on Design Science in Innovation and Engineering Research (DSIER)*, Lappeenranta, Finland, September 2017.

- Keynote Presentation, “Design Science Research: Engagement with Impact”
- Doctoral Consortium Faculty Mentor

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

- University of British Columbia, Canada, February 21, 2012
- University of Pretoria, South Africa, September 26, 2012
- Michigan State University, March 22, 2013
- Oulu University, Oulu, Finland, June 21-22, 2013
- Sogang University, Seoul, Korea, July 3, 2013
- Seoul National University, Seoul, Korea, July 4, 2013
- City University of Hong Kong, Hong Kong, July 12, 2013
- Temple University, Philadelphia, PA, September 17, 2013
- Friedrich-Alexander University Erlangen-Nuremberg, Germany, May 23, 2014
- Jyväskylä University, Finland, Design Science Research Class, May 26-31, 2014
- Al Quds University, Jerusalem, June 2, 2014
- Friedrich-Alexander University Erlangen-Nuremberg, Germany, June 10, 2015
- The Open University of Israel, February 15, 2016
- St. Gallen University, Switzerland, June 16, 2016
- Liechtenstein University, June 17, 2016
- Turku University, Finland, Design Science Research Class, October 5-7, 2016
- HEC Montreal, Canada, Design Science Research Seminar, February 15, 2017
- ESSEC Paris, France, Design Science Research Seminars, March 2017
- Lero, The Irish Software Research Centre, University of Limerick, Ireland, June 2017, October 2017

External Advisory Boards

- U-CARE Scientific Advisory Board, U-CARE is a strategic research program funded by the Swedish Government to promote psychosocial health among patients struck by somatic disease. Uppsala University, Sweden, 2011 – 2015.
- NSF EPSCoR Tri-State Cyber Infrastructure Project (Track 2) External Advisory Committee. The three states of Idaho, Nevada, and New Mexico cyber infrastructure project to enable new collaborative research on climate change. 2009 – 2012.
- NSF iPlant Project External Advisory Committee, iPlant is a NSF funded project to create a global center and computer cyber infrastructure within which to answer plant biology’s grand challenge questions. 2008 – 2010.

Government Service

- Program Manager, National Science Foundation, 2006-2009
- Reviewer, Research Proposals to National Science Foundation
- Reviewer, Research Proposals to Department of Energy
- Reviewer, Research Proposals to Research Boards of Other Countries, including Canada and several EU nations

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 8th 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 numerous biographical collections including *Who’s Who in America*.

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.
- Phi Kappa Phi Chapter 126 Executive Council, 2014 - 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.

Muma College of Business

- Promotion and Tenure Committee, 1996-2001, 2003-2006, 2008-2009, 2010-2011, 2012-2018.
- Research/Scholarship Committee, 2000-2002, 2008-2010.
- Sport and Entertainment Management Program, Curriculum, Search, and Launch Committee, 2011-2012
- Computer Resources Committee, 1994-95 and 1996-97.
- AACSB Accreditation Report Writing Team, 1996-97.
- Professorial Excellence Program (PEP) Review Committee, 1998-99.
- NationsBank Chair in Finance Search Committee, 1999-2000.

Information Systems and Decision Sciences Department

- Research Coordinator, 2015-2017
- BS/MS Integrated Program Committee, Chair 2010-2011
- Committee A, 1999–2002.
- Faculty Recruiting Committee for Information Systems.
 - Chair, 1994-95, 1996-97, 1997–98, 1998-99, 1999-2000, and 2014-17.
 - Member of Committee, 2000-01, 2002-03, and 2009-10.
- Director of the Master of Science in Management Information Systems Program and Committee, 1995 - 2006.
- Salary Inversion/Compression Committee, 1995.

Community Service

- Tampa Bay Phi Beta Kappa Chapter, 1997-Present.
- Purdue University President's Council, 2000-Present.
- Tampa Bay Purdue Alumni Club, 1998-Present.
- Lake Magdalene United Methodist Church, Tampa, FL, 1995-Present.
 - Crosswinds Ministry at USF, Board of Directors, 1998-2001.
- Lake Jovita Country Club, 2003-Present.
- 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.
- 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.