

**Vita**  
**Jian (Jeff) Guan**  
**Room 302**  
**College of Business and Public Administration**  
**University of Louisville**  
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**Present Position**

*Associate Professor of Computer Information Systems, College of Business,  
University of Louisville*

**Education**

Degree	Date	School	Area
Ph.D.	1992	University of Louisville	Computer Science and Engineering
M.S.	1989	University of Louisville	Computer Science

**Main Courses Taught**

*Undergraduate*

1. Introduction to Computer Programming
2. Data Structures
3. Database Design
4. System Analysis and Design
5. Database Security

*Graduate (MBA)*

1. Management of Information Systems
2. Business Intelligence

**Journal Publications**

1. "A Model for Investigating Internal Control Weaknesses," to appear in *Communications of the AIS*. With Alan S. Levitan.
2. "Requirements Fulfillment: A Missing Link between Requirements Determination and User Acceptance," to appear in *Information Systems Management*. With Robert M. Barker, Stephen Gohmann, David Faulds.
3. 2011, "Assessment of Real Estate Property Value: A Comparative Study," (with Zurada and Levitan), *Journal of Real Estate Research*, 33(3), 349-387.
4. 2010, "Requirements Bias: An Agency Theory Explanation for Sales Force Automation Implementation Success," *Communications of the ACM*, 53(7). With Robert M. Barker, Stephen Gohmann, David Faulds.

5. 2009, "Why is my sales force automation system failing?" *Business Horizons*, 52, 233—241. With Robert M. Barker, Stephen Gohmann, David Faulds.
6. 2008, "Modeling an Object-Oriented Accounting System with Computer-Aided Software Engineering," *Journal of Information Systems*, 2008 Fall, 22(2), 123—140. With Alan S. Levitan, Adrew T. Cobb.
7. 2008, "An Adaptive Neuro-Fuzzy Inference System Based Approach to Real Estate Property Assessment," *Journal of Real Estate Research*, 20(3/4). With Jozef Zurada, Alan S. Levitan.
8. 2007, "Control Considerations in Object-Oriented Systems," *Information Systems Control Journal*, Vol. 3, 2007. With Andrew T. Cobb, Alan S. Levitan.
9. 2007, "Sale Force Automation Systems: The Correspondence between the Perception of Productivity Gains and the Perception of Management Control among Salespeople," *Review of Business Information Systems*, Vol. 11, No. 2, 2007. With David Faulds, Robert Barker, Steve, Gohmann.
10. 2006, "Non-Conventional Approaches to Property Value Assessment," *Journal of Applied Business Research*, Volume 22, No. 3, 2006, pp. 1-14. With Jozef Zurada, Alan Levitan,
11. 2005, "Perceptions of Sales Force Automation: Differences between Sales Force and Management," *Industrial Marketing Management*, Volume 34, Issue 4, May 2005, pp. 337-343. With Steve, Gohmann, Robert Barker, David Faulds.
12. 2005, "Sales Force Automation, Information Accuracy and User Satisfaction," *Journal of Business and Industrial Marketing*, Volume: 20 Issue: 1; 2005, pp. 23-32. With Steve, Gohmann, Robert Barker, David Faulds.
13. 2004, "Sales Force Automation Acceptance: An Exploratory Study of the Role of Job Experience," *Journal of Applied Business Research*, Vol. 20, No. 3, pp.103-114. With Robert Barker, David Faulds, Steve Gohmann.
14. 2002, "Institutional strategy and information support: the role of data warehousing in higher education," *Campus Wide Information Systems*, Vol. 19, Num. 5, pp. 168 -- p174. With William Nunez, John F. Welsh.
15. 2002 "The Strategic Imperative for an Integrated Enterprise," *International Business & Economics Research Journal*, Vol. 1, No. 6, June, pp. 1-6. With Robert Barker,
16. 2001, "An Accounts Receivable Star Schema," *The Review of Accounting Information Systems*, Vol. 5, No. 1, Winter, pp. 31-44. With Alan Levitan.

17. 1999, "A new CIS curriculum design approach for the 21st century," *Journal of Computer Information Systems*, Spring, v39 n3, pp. 99-106. With Srinivasan, S., Wright, Andrew L.,
18. 1997, "Artificial Neural Network Based Assessment of Residential Real Estate Property Prices: A Case Study," *Accounting Forum*, Vol. 20, Nos. 3-4. With Alan Levitan,
19. 1996, "An Integrated Approach for Fault Diagnosis with Learning," *Computers in Industry*, Vol. 32, pp. 33-51. With J. H. Graham.
20. 1995, "Factorization by Label of Magic Graphs," *Congressus Numerantium*. With G. C. Sun, T. L. Holloman,
21. 1995, "A Functional Approach to the Concurrent Design of Diagnostic Systems," *International Journal of Computers and Industrial Engineering: Special Issue*, vol. 28, No. 3, pp. 605-614. With Alexander, S.M., Graham, J.H., and Lee, W.
22. 1994, "A Labeling Algorithm for Magic Graph," *Congressus Numerantium*, Vol. 102, pp.129-137. With G. C. Sun.
23. 1994, "Diagnostic Reasoning with Fault Propagation Digraph and Sequential Testing," *IEEE Transactions on Systems, Man, and Cybernetics*, October Vol. 24, No. 10, pp. 1552-1558. With J. H. Graham.
24. 1993, "A Hybrid Diagnostic System with Learning Capabilities," *Engineering Applications in AI*, Vol.6, No. 1, pp. 21-28. With J. H. Graham, S. M. Alexander.
25. 1990, "The Design and Development of an Automated DFA System," *International Journal of Computers and Industrial Engineering*, Vol.19, Nos. 1-4, pp. 467-471. With S. M. Alexander.

### **Book Chapters**

1. 2011, "A Digraph Model for Risk Identification and Management in SCADA Systems,". With James H. Graham and Jeffrey L. Hieb.
2. 2009, "An Ontological Model for Risk Management in SCADA Systems," IFIP Advances in Information and Communication Technology, Vol. 311 Palmer, Charles; Shenoj, Sujeet (Eds.) 2009, XVI, 257 p., Springer, Hardcover ISBN: 978-3-642-04797-8. With Hieb, J.L., J.H Graham.

3. 2004, Jian Guan, William Nunez, John F. Welsh, "Institutional strategy and information support: the role of data warehousing in higher education," in Best Technology Practices in Higher Education, edited by Les Lloyd, Information Today, Inc., pp. 133-143.
4. 1998, G.C. Sun, J. Guan "Standardized Moment Invariants and Their Application in a Neural Network Pattern Recognizer," in Intelligent Engineering Systems Through Artificial Neural Networks, Vol. 8., eds. Dagli, Cihan H., et al., ASME Press, pp. 509-514.
5. 1997, J. Guan, J.H. Graham "Intelligent Diagnostics in Robotics and Integrated Manufacturing Systems," (with Graham, J.H.) In Design and Implementation of Intelligent Manufacturing Systems, edited by H.R. Parsaei et al., Prentice-Hall, pp.65-79.

### **Conference Presentations/Proceedings**

1. 2013, "A Fuzzy Neural Approach to Classifying Low Back Disorders Risks," accepted by The Hawaii International Conference on System Sciences. With Jozef Zurada and Donghui Shi.
2. 2011, "A Digraph Model for Risk Identification and Management in SCADA Systems," 2011 IEEE Intelligence and Security Informatics, July 2011, Beijing, China. With James H. Graham and Jeffrey L. Hieb.
3. 2010, "The Need for Semantic Interoperability in the Financial Information Supply Chain," The Tenth (2010) Wuhan International Conference on E-Business, Wuhan, China. With Alan Levitan, Randy Kuhn.
4. 2009, "A comparison of parametric and non-parametric methods to estimate the costs of obesity," 7<sup>th</sup> International Conference on Health Economics, Beijing, China, July, 2009. With , Gohmann, S., Jozef Zurada.
5. 2009, "Assessment of Real Estate Property Value: A Comparative Study," 25th Annual American Real Estate Society Meeting, Monterey, CA, April 1-4, 2009. With Zurada, J. M., Levitan, A. S.
6. 2009, "An Ontological Approach for Identifying Cyber-Induced Faults in Process Control Systems," Third Annual IFIP WG 11.10 International Conference on Critical Infrastructure Protection, Hanover, New Hampshire, USA, March 2009. With Hieb, J.L., J.H Graham.
7. 2008, "An Ontological Model for Assessing Security Risk Impact in SCADA Systems," 23rd International Conference on Computers and Their Applications

- (CATA-2008) , 9 to 11 April 2008 , Cancun, Mexico. With James H. Graham, Thomas A. Harris, Patricia A. S. Ralston,
8. 2006, "An Ontological Model for Accounting Information Systems," (with Andrew T. Cobb, Alan S. Levitan) *Americas Conference on Information Systems AMCIS-12 2006* Acapulco.
  9. 2004, "Perceptions of Sales Force Automation Systems as a Means of Micromanagement," (with Stephen Gohman, Robert Barker, David Faulds) presented at *ISOneWorld Conference*, Las Vegas, March 2004.
  10. 2004, "Perceptions of Sales Force Automation: Differences between Sales and Management," (with Stephen Gohman, Robert Barker, David Faulds) presented at *ISOneWorld Conference*, Las Vegas, March 2004.
  11. 2003, "Sales Force Automation, Information Accuracy, and User Satisfaction," (with Gohman, S. F., Barker, R.M., Faulds, D.J.) February, 2003, Las Vegas.
  12. 1998, "Standardized Moment Invariants and Their Application in a Neural Network Pattern Recognizer," November, 1998, St. Louis. With Sun, G. C.
  13. 1998, "Design of a Novel CIS Curriculum for Educating the Information Systems Developers of 21<sup>st</sup> Century," (with Wright, A. and Srinivasan, S.) October, 1998, San Antonio, pp. 103-108.
  14. 1995, "A Planning Model for a Global Marketing Decision Support System and Its Implementation," (with Horack, R. and Barker, R.M.) September, 1995, Toronto, Canada.
  15. 1995, "Development Issues in a Global Marketing Decision Support System," (with Horack, R. and Barker, R.M.) September, 1995, Toronto, Canada.
  16. 1994, "Computational Considerations for Fault Diagnosis in Complex Systems," (with Graham, J.H. and Grove, R.) 9<sup>th</sup> *IEEE International Symposium on Intelligent Control*, August 1994, Columbus, Ohio, USA.
  17. 1993, "Rule Learning in Intelligent Diagnostic and Monitoring Systems," (with Graham, J.H.) *International Fuzzy Systems and Intelligent Control Conference*, March, 1993, pp.249-259.
  18. 1993, "Intelligent Diagnostics in Robotics and Integrated Manufacturing Systems," (with Graham, J.H.) *IEEE Robotics and Automation Conference*, May, 1993.

19. 1992, "Artificial Neural Network-Based Image Pattern Recognition," (with Zhang, H. and Sun, G.C.) *The 30<sup>th</sup> Annual ACM Southeast Conference*, Raleigh, NC, April 8-10, 1992, pp.437-441.
20. 1992, "A Hybrid CIM Diagnostic System with Learning Capabilities," (with Graham, J.H., and Alexander, S.M.) *Third International Conference on Computer Integrated Manufacturing*, Rensselaer Polytechnic Institute, Troy, NY, May 20-22, 1992.