

# BIH-RU LEA, Ph.D.

## *Curriculum Vita*

**Address:** Department of Business & Information Technology  
Missouri University of Science and Technology  
(formerly University of Missouri - Rolla)  
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### Education:

**Ph.D. in Industrial Management, Clemson University, Clemson, SC 29634, May, 1998**  
Dissertation Title: *The Impact of Management Accounting Alternatives in Different Manufacturing Environments*  
Focus Areas: Operation Management and Management Information Systems  
Advisor: Dr. Lawrence LaForge

**Master of Professional Accountancy, Clemson University, Clemson, SC 29634, May, 1992**  
Minor: Managerial Accounting

**Bachelor of Business (Accounting), Tamkang University, Taiwan, R.O.C., June, 1988**

### Professional Experience

**09/08 to present Associate Professor of Business & Information Technology, SAP Campus Coordinator, ERP Center director, Missouri University of Science & Technology (formerly University of Missouri – Rolla)**

- Teach classes in the areas of accounting principles, managerial accounting, Enterprise Resource Planning, Strategic Enterprise Management, ERP Configuration and Implementation, Supply Chain Management, and Customer Relation Management
- In charge of Microsoft University Alliance, SAP Academic Alliance, Oracle Academic Alliance, and SAS

**09/03 to present Assistant Professor of Business & Information Technology and SAP Campus Coordinator at Missouri University of Science & Technology (formerly University of Missouri – Rolla)**

- Teach classes in the areas of accounting principles, managerial accounting, Enterprise Resource Planning, Strategic Enterprise Management, ERP Configuration and Implementation, Supply Chain Management, and Customer Relation Management
- In charge of Microsoft University Alliance, SAP Academic Alliance, Oracle Academic Alliance, and SAS Academic Alliance programs.
- Actively involved in the curriculum design and deployment of MBA program
- Actively involved in the AACSB Accreditation

**06/99 to 05/03 Assistant Professor of Computer Information Systems at University of Louisville**

- Teach classes in the areas of computer programming, web programming, WWW development, and management information systems
- Served in CIS Curriculum Development Committee to re-design the web-based CIS curriculum
- Actively involved in the constructions and trainings of multi-media interactive computer classrooms
- Actively involve in faculty development activities

**Assistant Research Director, UPS Center for World-wide Supply Chain Management, Logistics and Distribution Institute, University of Louisville**

- Coordinates research projects in the areas of enterprise resource planning (ERP), supply chain management (SCM), manufacturing performance, and management accounting systems.

### **08/98 to 05/99 Assistant Professor of Management Information Systems at Anderson College**

- Taught classes in the areas of computer application, programming, Web Design, database management, system design and analysis, management information systems, and Internet utilization.
- Played a major role in the CIS Curriculum Development Committee to establish a Computer Information System (CIS) concentration for Anderson College
- Provided and coordinated faculty trainings in the areas of web design, computer application, hardware and software maintenance
- Played an important role in coordinating the constructions of multi-media enhanced interactive computer teaching classrooms
- Actively involved in the Technology Committee that oversaw the development of computer technology blueprint for the College as a whole
- Play an important role in the coordination of design and development of the Anderson College web site

### **05/98 to 07/98 Visiting Instructor at Clemson University**

- Taught classes in information system design and database management systems for MBA program

### **08/97 to 05/98 Assistant Professor of Computer Science at Anderson College**

- Taught Introduction to Information Processing, Computer Science I, Computer Science II, Computer Applications in Business, and Management of Information Systems
- Served as web masters for Business Division, VanLab, and many other divisions
- Provided professional opinions and established guidance for computer technology development at Anderson College

### **01/97 to 06/97 Instructor at Anderson College**

- Taught Introduction to Information Processing, Computer Science I, and Management of Information Systems

### **10/96 to 05/97 Research Assistant at Clemson Apparel Research**

- System Analysis and Implementation
- Simulation modeling and programming

### **08/90 to 05/97 Research and Teaching Assistant at Clemson University**

- Taught Management Application of Microcomputers, Computer Utilization, and Introductory to Statistics
- Provided technical support to faculty members in the Management Department in the areas of Statistical Data Analysis, computer programming, and computer simulation.

## **Research Interests**

- Interdisciplinary Study in the Areas of Management Accounting Systems, Computer Information Systems, and Operations Management
- RFID and Supply Chain Management
- Enterprise Resource Planning
- Business Application of Software Intelligent Agents
- Impact of Information Technology on Business Strategies and Operations
- Digital Government and Digital Society
- Impact of Information technology Usage on Business Education in Higher-Education Environments

## **Grants and Contracts**

### **Grants Received**

1. Lea, B-R, (PI, 50%), Yu, W-B; and Qi, L. "UMR and Monsanto Partnership: Phase I Feasibility Investigation," Monsanto Company, \$14,272 (shared credit: \$7,136), 2007 -2008.
2. Lea, B-R, (PI, 50%) and Yu, W. B., "A Text Mining Enhanced Stakeholder Monitor in an Intelligent Enterprise Decision Simulator," \$8100, British Telecom Research Fellowship, June 2005.

3. Lea, B-R, (PI, 100%), "A Theory of Constraints-based Supply-Chain Performance Management Framework," \$25,000, Missouri Research Board, 2004 - 2005.
4. Lea, B-R, (Co-PI, 30%), et. al., "NSF 03-521 Partnerships for Innovations," National Science Foundation, renewed, Total funded: \$90,000 (shared credit: \$27,000), September 2004 – August 2006.
5. Lea, B-R, (Co-PI, 30%), et. al., "NSF 03-521 Partnerships for Innovations," National Science Foundation, Total funded: \$90,000 (shared credit: \$27,000), September 2003 – August 2004.
6. Lea, B-R, (PI, 100%), Microsoft Instructional Lab Grant, Computer Science, \$61,599 (shared credit: 100%), 1998-1999.
7. Software Grant for classroom teaching from Sausage Software, 1995-1999.

### **Grants Under Review or Development**

8. Lea, B-R, (PI, 100%), The Boeing Welliver Faculty Fellowship, submitted on January 16 2008.
9. Lea, B-R, (PI, 50%), Yu, W-B. "UMR and Monsanto Partnership: Phase II Implementation Planning," Monsanto Company, \$50,000 (shared credit: \$25,000), to be submitted in April 2008.

### **Grants Submitting History**

10. Lea, B-R, (Co-PI, 50%) and Liu, F. "Testing SAP ERP Applications Using Automated Testing Tools," Tellabs Corporation, \$104,030 (shared credit: \$52, 015), 2007.
11. Lea, B-R (CO-PI, 30%), Yu, W.B. (CO-PI); Oboh-Ikuenobe, F., (PI), Taxon Recommendation System for Palynological Data, \$36,548 (shared credit: \$10,964.4), Missouri Research Board, Submitted in October, 2006.
12. Lea, B-R (CO-PI, 50%), Ankner, W. (PI), Johnson, T. (CO-PI), Study on Transportation Funding Alternatives, The NATSO Foundation, \$125,406 (shared credit: \$62,653), Submitted in April 2006
13. Lea, B-R, (Co-PI, 30%), Geoinformatics: Paleontological Data Integration Enhanced by a Text Mining, National Science Foundation, \$312,286, (shared credit: \$93,686), submitted in February 2006.
14. Lea, B-R, (PI, 40%), Intelligent Enterprise Decision Simulator, \$272,407 (shared credit: \$108,962.8), British Telecom, Submitted on April 2005.
15. Lea, B-R (PI, 45%), Yu, W. B., Bham, G., "Text Mining and Data Mining Enhanced Intelligent Project Evaluator: An Evaluation of the Economic and Non-economic Benefits of Transportation Research in Missouri," \$99,652 (shared credit: \$44,843), Missouri Transportation Institute, Submitted on December 2005.
16. Lea, B-R, (Co-PI, 30%), Text Mining: A New Approach for Fossils and Geoinformatics, National Science Foundation, \$35,2441, (shared credit: \$105,732), July 2004
17. Lea, B-R, (Co-PI, 10%), What Small And Medium Enterprises Want, Need, And Are Willing To Buy: Technology Needs Assessment of Midwestern SMEs, \$145,089 (shared credit: 10%), SAP Small and Medium Enterprises RFP, submitted on March 26, 2004
18. Lea, B-R, (Co-PI, 30%), Development of an On-line Assessment Instrument for Small and Medium Size Enterprises, \$102,337 (shared credit: \$23,285), SAP Small and Medium Enterprises RFP, submitted on March 26, 2004
19. Lea, B-R, (PI, 100%), Create Inventory Visualization Model with Simulation Data, \$21,000 (shared credit: \$21,000), IC Logistics/NSF, Submitted on December 2004.

## **Publications and Research**

### **Refereed Journals**

1. Lea, B-R, Chris Brown, Cooperative Lecture Style and Student Learning in an Introductory Computer Programming Course, forth coming, International Journal of Innovation and Learning.

2. Lea, B-R, Yu, W.B., and Kannan, P., "Social Network Enhanced Digital City Management And Innovation Success: A Prototype Design. Keynote paper, 16(3), 1-22, Journal of International Technology and Information Management, 2007.
3. Yu, W.B., Lea, B-R, and Guruswamy, B., A Theoretic Framework Integrating Text Mining and Energy Demand Forecasting, 5(1), International Journal of Electronic Business Management, Special issue on E-business applications in the Energy Sector, 211-224, 2007.
4. Lea, B-R, Management Accounting Systems in an ERP Integrated Environment. Industrial Management & Data Systems, 107(8), 1188-1211, 2007.
5. Lea, B-R, Yu, W. B., Maguluru, N., Nicholas, M., , Enhancing Business Networks Using Social Network Based Virtual Communities, Industrial Management and Data Systems, 106(1), 121 – 138, 2006.
6. Lea, B-R, Leveraging Information Technology to Gain Competitive Advantage: a Case Study on General Electric Consumer Products, Journal of International Technology and Information Management, 14(1), 25-40, 2005.
7. Lea, B-R, Gupta, M., Yu, W. B., "A Prototype Multi-Agent ERP Systems - An Integrated Architecture and a Conceptual Framework," Technovation, 25(4), 433-441, 2005
8. Lea, B-R, Min, H., The Impact of Management Accounting Systems on Just-In-Time and Theory of Constraints-based Manufacturing, International Journal of Production Research, 41(13), 2879-2910, 2003.
9. Lea, B-R, Friendendall, L., The Impact of Management Accounting, Product Structure, Product Mix Algorithm, and Planning Horizon on Manufacturing Performance, International Journal of Production Economics, 79(3), 279-299, 2002
10. Friendendall, L., Lea, B-R, "Improving the Order Mix Heuristic in the Theory of Constraints," International Journal of Production Research, 35(6), pp.1535-1544, 1997.
11. Lea, B-R, "A General Discussion of EDP Auditing," Journal of Tamkang Accounting, Tamkang University, 1988.

#### **Manuscripts Currently Under Journal Review/Revision**

1. Lea, B-R, Measuring Performance of Social Network-Based Virtual Community: A Balanced Scorecard Approach, under review, Industrial Management & Data System.

#### **Manuscripts in Preparation**

1. Lea, B-R, LaForge, L., "The Integration of Management Accounting and Manufacturing Decision Making," to be submitted to International Journal of Production Research.
2. Lea, B-R, "Cost Accounting Systems and Product Mix Decision: An Illustration."
3. Lea, B-R, Yu, W. B., Oboh-Ikuenobe, F. "Text Mining and Data Mining enhanced Paleontology Taxon Recommendation and Search System," To be submitted to Journal of Computer Information Systems.
4. Lea, B-R, Yu, W.B., and Maguluru, N., "Applications of interaction and personalization in a social network-based virtual community: a case study." To be submitted to Journal of International Technology and Information Management.
5. Lea, B-R, Yu, W. B., Guruswamy, "Developing a Balanced Scorecard Performance Evaluation Framework for IT Projects: A Case Study."
6. Lea, B-R, "Improve Supply Chain Performance with Theory of Constraints Based Measures."
7. Lea, B-R, "Theory of Constraints based Performance Measures for Supply Chain Coordination – A tutorial."

#### **Refereed Proceedings**

1. Lea, B-R, Hall, D., "A Balanced Scorecard Prototype in a State Department of Transportation," Submitted, 38th Annual Conference of Decision Sciences Institute, Phoenix, Arizona, November 17-20, 2008

2. Lea, B-R, Yu, W. B., Oboh-Ikuenobe, F. "Application of Text Mining and Data Mining in Paleontology Taxon Recommendation and Search System," 5091-2096, Proceedings of 38th Annual Conference of Decision Sciences Institute, Phoenix, Arizona, November 17-20, 2007.
3. Lea, B-R, Maguluru, N., and Kannan, P., "Application of Balanced Scorecard to a Social Network-Based Virtual Community," 27271-27276, Proceeding of the 37th Annual Conference of Decision Sciences Institute, San Antonio, Texas November 18-21, 2006
4. Lea, B-R, Brown, C., "Impact of Cooperative Lecture Style on Learning Introductory Computer Programming," 30231-30236, Proceeding of the 37th Annual Conference of Decision Sciences Institute, San Antonio, Texas November 18-21, 2006
5. Yu, W. B., Lea, B-R, Guruswamy, B., "Sentiment Analysis: Retrieving Positive or Negative Polarities in News Articles Using Information Agents," Proceeding of the 37th Annual Conference of Decision Sciences Institute, San Antonio, Texas November 18-21, 2006
6. Yu, W. B., Lea, B-R, Oboh-Ikuenobe, F., "Application of Text Mining in Developing Standardized Descriptions of Taxa in Paleontology: A Framework," 37, Proceeding of the Geoinformatics 2006 Conference, Reston, VA, May 10 -12, 2006
7. Lea, B-R, Yu, W. B., Kannan, P., "A Social Network Based Information City for Innovation Success," Proceeding of the 36th Annual Conference of Decision Sciences Institute, San Francisco, CA, November19-22, 14031-14036, 2005.
8. Lea, B-R, Kumar, S., "The Impact Forecast Error on the performance of the supply chain," Proceeding of the 36th Annual Conference of Decision Sciences Institute, San Francisco, CA, November19-22, 16341-16346, 2005.
9. Lea, B-R, Maguluru, N., Nichols, M., "Social Networks in the Technology Era: Roles of Digital Cities in Enhancing Business Networks," Proceeding of the 2005 Americas Conference on Information Systems, Omaha, Nebraska, August 11-14, 3501-3513, 2005.
10. Deokule, S., Yu, W. B., and Lea, B-R, "Conceptual Framework of Using Collaborative Filtering Algorithms to Enhance Keyword Search," Proceeding of the 10th Annual Meeting of Asia-Pacific Decision Sciences Institute, Taipei, Taiwan, June 28 - July 2, 2005.
11. Lea, B-R, Yu, W. B., Ma, Y., "A Review of Municipally Owned Information Cities between the United States and Europe," Proceeding of International Association of Computer Information Systems Pacific Proceeding of the 2005 Conference, Taipei, Taiwan, 530-537, May 19-21, 2005
12. Lea, B-R, "Leverage Information Technology To Gain Competitive Advantage: A Case Study On General Electric Consumer Products," Proceeding of the 35th Annual Conference of Decision Sciences Institute, 6521-6526, Boston, MA, November 20-23, 2004
13. Lea, B-R, "The Use of Information Technology to Improve Operational Efficiency in A Public School System: A Case Study," submission #334, 1-6, Proceeding of the 34th Annual Conference of Decision Sciences Institute, Washington, DC, November 22-25, 2003
14. Lea, B-R, Yu, W. B., "A Multiple-Agent Based ERP Architecture," Proceeding of the 33rd Annual Conference of Decision Sciences Institute, 735-740, San Diego, California, November 23-26, 2002.
15. Lea, B-R, Yu, W. B., "A Multiple-Agent Enterprise Resource Planning Architecture," Proceeding of the 13th Annual Conference of Production and Operations Management, San Francisco, LA, April 5-8, 2002.
16. Lea, B-R, The Impact of Management Accounting Information Systems on Manufacturing Performance in JIT, TOC, and MRP, Proceeding of the 31st Annual Conference of Decision Sciences Institute, 975-977, Orlando, FL, November 2000.
17. Lea, B-R, Fredendall, L., "The Performance of ABC Costing, Throughput Accounting, and Traditional Costing in a TOC Environment," Proceeding of the 30th Annual Meeting of the Decision Science Institute Proceeding, 35-37, 1999.

18. Lea, B-R, Fredendall, L., "Theory of Constraints: A Heuristic to Solve the Order Mix Problem," Proceedings of Southeast Region of the Decision Science Institute, 1994.

### **Refereed Presentations**

1. Lea, B-R, Student Learning Outcome and personal Response System (Clickers) in a Small Class Setting, 38th Annual Conference of Decision Sciences Institute, Phoenix, Arizona, November 17-20, 2007.
2. Lea, B-R, Yu, W. B., "Enhancing Supply Chain Management with A Text Mining Enhanced Stakeholder Monitor," 18th Annual POMS Conference, Dallas, Texas, May 4-7, 2007.
3. Lea, B-R, Improve Supply Chain Performance Using TOC based TDD and IDD Measures, 37th Annual Conference of Decision Sciences Institute, San Antonio, Texas November 18-21, 2006
4. Lea, B-R, Theory of Constraint Enhanced Supply Chain Performance Measurement: A Tutorial, 23rd Annual Conference of MCASTA, St. Louis, Missouri, September 16, 2006
5. Lea, B-R, Information City: A Review from Business Perspectives, 35th Annual Conference of Decision Sciences Institute, Boston, MA, November 20-23, 2004.
6. Lea, B-R, "The Impact of E-Commerce on Non-Profit Organizations: A Case Study," 14th Annual Conference of Production and Operations Management, Savannah, Georgia, April 4-7, 2003.
7. Lea, B-R, "The Role of Business Simulation in ERP and SCM Implementation," 33rd Annual Conference of Decision Sciences Institute, San Diego, California, November 23-26, 2002.
8. Lea, B-R, Yu, W. B., "ERP Implementation and Software Agents," International Conference on Electronic Business, Hong Kong, December 19-21, 2001.
9. Lea, B-R, Yu, W. B., "Using an Intelligent Agent as an ERP Implementation Alternative," INFORMS Annual Meeting, Miami Beach, FL, November 4-7, 2001.
10. Lea, B-R, Yu, W. B., "ERP Simulation Design for JIT production with activity-based costing," Winter Simulation Conference, Orlando, FL, December 10-13, 2000.
11. Lea, B-R, Yu, W. B., "The Impact of Safety Stock Selection and Management Accounting Alternatives on Manufacturing Performance," 11th Annual Conference of Production and Operations Management, San Antonio, TX, April 1-5, 2000.
12. Lea, B-R, Fredendall, L., "The Impact of Accounting Systems, BOM Structures, and Product Mix Algorithms on Manufacturing Performance," 10th Annual Conference of Production and Operations Management, Charleston, SC, April, 1999.

### **Working Papers**

1. Lea, B-R, Performance of Different Management Accounting Systems with Various Management control Styles and Product Mix Algorithms in an ERP Environment, UPS Center for Worldwide Supply Chain Management, Logistics and Distribution Institute, University of Louisville, Working Paper Series No. 2002-7, 2002.
2. Lea, B-R, Hokey Min, The Impact of Management Accounting Systems on Just-In-Time and Theory of Constraints-based Manufacturing, UPS Center for Worldwide Supply Chain Management, Logistics and Distribution Institute, University of Louisville, Working Paper Series No. 2001-13, 2001.
3. Lea, B-R, "The Automation of Accounting Systems," Accounting Research & Development Foundation of R.O.C., 1990.

### **Professional Presentations and Workshops**

1. Lea, B-R, "How to integrate ERPsim in your curriculum: The Accounting Perspective," ERPsim User Group Conference 2008, Canadian Academic Accounting Association (CAAA), Montréal, Canada, April 17 – 18, 2008.

2. Lea, B-R, "Customer Relationship Management with Business Intelligence and Performance Management with Balanced Scorecard," ERPSim User Group Conference 2008, Canadian Academic Accounting Association (CAAA), Montréal, Canada, April 17 – 18, 2008.
3. Lea, B-R, Aggarwal, S., Jaidka, A., "Improving Decision Quality with BI Queries and Balanced Scorecard," SAP Curriculum Congress 2008, Atlanta, GA, February 27 – March 1, 2008.
4. Lea, B-R, Yu, W.B., "An Integrated, Cross-functional, Multidisciplinary MBA Curriculum Design," National United University, Taiwan, Jun 13, 2007.
5. Lea, B-R, "Student Learning Outcome and personal Response System (Clickers) in a Small Class Setting," University of Missouri-Rolla, April 27, 2007.
6. Lea, B-R, Fisher, C, "Onsite UMR Sponsored Childcare Facility: A Need Assessment," Women Advancing Excellence, University of Missouri-Rolla, April 18, 2007.
7. Lea, B-R, Yu, W. B., Srinivisan, S., SAP UMR Faculty Training Workshop, Rolla, MO (6/5/2006 – 6/10/2006)
8. Lea, B-R, A Theory of Constraints-based Supply-Chain Performance Management Framework, Research Seminar, School of Management & Information Systems, April, 2004.
9. Lea, B-R, Prototype of Innovation Information Infrastructure, Kauffman Foundation, Kansas City, MO, February 2004.
10. Lea, B-R, Yu, W. B., "ERP Implementation and Software Agents," Research Seminar, College of Business and Public Administration, University of Louisville, April 2002.
11. Lea, B-R, The Role of Business Simulation in ERP and SCM, Guest Speaker Seminar Series, UPS Center for Worldwide Supply Chain Management, Logistics and Distribution Institute, University of Louisville, March 18, 2001.
12. Lea, B-R, "A Simulation Study of Management Accounting Alternatives in Different Manufacturing Environments," Third Annual Graduate Student Research Forum at Clemson University, 1998.

## **Teaching Interests**

- Managerial Accounting
- Accounting Information Systems
- Enterprise Resource Planning (ERP)
- Supply Chain Management
- Operations Management
- System Design and Analysis
- Object Oriented programming, web Programming, and Web Design (Java, JavaScript, HTML, DHTML, XML, C++, Visual Studio .NET, Visual Basic .NET, ASP.NET)
- Database Management
- Management of Information System

## **University Research Advising and Teaching Experience**

### **University Research Advising**

#### ***Major Graduate Student Thesis Advisor***

- M.S. Student: Sangharsh Aggarwal (Spring 2008 – present)  
 Prasad Patankar (Spring 2008 – present)  
 Lin Zhu (Fall 2007 – present)  
 Matt Kutz (Spring 2007 – present)  
 David Hall (Fall 2006 – Completed in May 2007)  
 Prashanth Kannan (Fall 2004 – Completed in May 2006)  
 Nisha Maguluru (Fall 2004 – Completed in December 2005)  
 Senthil Kumar (Spring 2004 – Completed in August 2005)

Chris Brown (Spring 2004 –Completed in August 2005)

### ***Graduate Student Thesis Committees***

M.S. Student: Janarthanan Eindhala Narasimhalu (fall 2005- Completed in January 2007)  
Yashesh Chhaya (Spring 2005 – present)  
Dale Spence (Spring 2005 - Completed in December 2005)  
Balasubramanian Guruswamy ((Fall 2004 –Completed in December 2005)  
Shreyas S. Deokule (Completed in August 2005)  
Aparna Jyothi Patsa (completed in January 2005)  
Toby Kurien Thomas (completed in December 2004)

### ***Undergraduate Research Project Advisor***

Kristen Duvell, OURE project (Fall 2007 – Completed in Spring 2007)  
Lisa Liou, OURE project (Fall 2005 – Completed in Spring 2006)  
Bonnie Yates, OURE project (FS2004 – Completed in Spring 2005)  
Nguyet Nguyen, OURE project (FS2004 – Completed in Spring 2005)

## **University Teaching Experience**

### ***Missouri University of Science and Technology (formerly University of Missouri - Rolla)***

- **Strategic Management System Configuration (ERP448):** Graduate level, 3 credit-hour course on implementation and design practices for enterprise performance measurement and monitoring systems with a focus on balanced scorecard and value based management. SAP's Strategic Enterprise Management (SEM) is used as a tool for project implementation.
- **ERP Configuration and Implementation (ERP446):** Graduate level, 3 credit-hour course on implementation and design practices for business processes in Enterprise Resource Planning (ERP) systems. Course examines and applies techniques used in SAP ECC/R/3 for system configuration and integration with a focus on accounting information systems, production systems, logistics and finance.
- **MBA Accounting (BUS422 - BUS423):** Graduate level, 2 credit hour course. Financial accounting and managerial accounting components in the MBA core.
- **MBA Capstone (BUS426):** Graduate level, 3 credit hour course. Students will integrate knowledge learned from previous MBA classes to run a simulated company in an enterprise resource planning (ERP) environment. Students will leverage the information technology to achieve a competitive advantage against the other teams during live simulation games.
- **MBA Integrated Core (BUS420):** Graduate level, 18 credit-hour course. The MBA core areas of management, marketing, operations, accounting, finance, and human resource are integrated using a case study approach with emphasis on integration using Enterprise Resource Planning (ERP) software.
- **Strategic Enterprise Management Systems (IST348/BUS386):** Graduate level, 3 credit-hour course on the use of information technology for the formulation and implementation of strategy in the organization. SAP's Strategic Enterprise Management (SEM) is used to study the development of business plans, definition of key performance indicators, and evaluation of business.
- **Managerial Accounting (BUS320):** Senior level, 3 credit-hour required core course that emphasizes internal use of accounting information in establishing plans and objectives, controlling operations, and making decisions involved with management of an enterprise (the determination of costs relevant to a specific purpose such as inventory valuation, control of current operation, or special decisions).

- **Essentials of Accounting (BUS120)**: junior or sophomore level, 3 credit-hour required core course that is an introduction to accounting and its significant role in making sound business decisions. Emphasis is on what accounting information is, why it is important, and how it is used to make strategic economic decisions.
- **System Analysis (IST243)**: Senior level, 3 credit-hour required core course. The theory and practice of structured analysis are presented. Topics include: traditional vs. structured analysis methods, requirements analysis, user/analyst interaction, investigation of existing systems, human/machine interfaces, case tools, and workbenches.

*University of Louisville, Louisville, KY 40292*

- **Introduction to Computer Programming (CIS 110)**: Junior level, 3 credit-hour required core course for the major. Introduction to the basic principles of computer programming using an object - oriented programming language such as C++. The course concentrates on algorithmic development, with emphasis on good techniques in design, coding, debugging, and documentation. Provides heavy exposure to the latest in programming technology. Extensive computer programming in the chosen object - oriented language is required.
- **Web Programming (CIS 201)**: Junior level, 6 credit-hour required core course for the major. This course provides an introduction to Web technologies and effective Web site design, implementation, and maintenance. The architecture of Web, the use of the Web for sharing data, and models for using the Web to conduct business using languages such as HTML, JavaScript, and XML are explored. Additionally, this course introduces object-oriented programming using Java. Students learn the fundamentals of the object model, including the use of classes and encapsulation. The course concentrates on algorithmic development, with emphasis on sound techniques for designing, coding, debugging and documenting programs. Computer lab sessions are used to reinforce programming concepts. Extensive programming assignments are required. Team taught with one other faculty.
- **Management of Information Systems (CIS 410)**: Senior level capstone class. A 3 credit-hour required core course explores strategic development of information technology; value chain analysis and its application to information resource management; information systems planning; organizing, staffing, and controlling the deployment of information technology; the development of an IT platform and architecture consistent with organizational structure. Intensive case analysis and company project implementation.
- **WWW Development (CIS 381)**: Sophomore and senior level, 1.5 credit hour elective course. The main object of this course is to develop effective Internet and Intranet web sites to support current academic pursuits and to provide a competitive advantage in future professional activities. Topics include web design concepts, fundamental HTML programming, and graphic/photo processing and animation. Through hands-on work, students will become familiar with basic techniques for designing, implementing, and maintaining web sites.
- **Rapid Application Development (CIS 390)- Visual Basic**: Sophomore and senior level, 1.5 credit hour elective course. Overview of Microsoft Visual Basic 6.0 and its use as a tool for rapid application development. Topics include the tool's main components; properties, methods and events of objects; commonly-used controls; creating objects; debugging and error handling; creating menus; using dialog boxes; and database connectivity.

*Anderson College, Anderson, SC 29621 (1997 – 1999)*

- Microcomputer Application in Business (required core course for sophomore)
- Computer Programming I (Visual Basic, HTML, JavaScript, VBScript) (required core course for sophomore)
- Computer Programming II (Visual Basic) (required core course for sophomores)
- Introduction to Information Processing Systems (required core course for freshman)
- Management of Information Systems (required core course for senior)
- Directed Study in Database Management (independent study)

- Introduction to Database Management Systems (required core course for junior)
- Advanced Business Application of Microcomputers (required core course for sophomore)
- Information Systems Analysis, Design, and Implementation (elective for senior)

### ***Clemson University, Clemson, SC 29630 (1998)***

- Information Systems Design and Implementation (MBA)

### **Professional Memberships**

- Decision Science Institute (DSI)
- The Production and Operations Management Society (POMS)
- Association for Information Systems (AIS)
- International Association of Computer Information Systems (IACIS)
- Institute for Operations Research and Management Sciences (INFORMS) (1999-2001)
- American Accounting Association (1999-2001)
- American Production and Inventory Control Society (1997-1999)

### **Honors**

- Beta Gamma Sigma since 1998
- Who's Who of American, 2004 – 2007
- Who's Who of American Women, 2006-2007 25th Silver Anniversary Edition

### **Service**

#### **Professional Service**

- Editorial Review Board, Production and Operations Management Journal, July 2007 – Present.
- Editorial Board, Journal of International Technology and Information Management, 2004 - present
- Editorial Board, International Journal of Business and Systems Research (IJBSR), September 2006 – present.
- Editorial Board, International Journal of Electronic Finance, 2005 - present
- Associate Editor for Production Operations Management Society (POMS) Online Journal Site, 2003 - 2006
- Member, standing committee on Coordination of Production and Operations Management Journal Activities, July 2007 - Present.
- Reviewer, IEEE Transactions on Automation Science and Engineering, 2006-present
- Reviewer, Journal of International Technology and Information Management, 2002-present
- Reviewer, International Journal of Production Research, 2002-present
- Reviewer, International Journal of Production Economics, 2003-present
- Reviewer, Journal of International Technology and Information Management, 2003
- Reviewer, The Engineering Economist Journal, 2002.
- Reviewer, Association of Information Systems, Americas Conference on Information Systems, 2005 - 2006.
- Reviewer, International Association of Computer Information Systems, 2005 - present.
- Section Chairs and Reviewer, Annual Conference of Decision Sciences Institute, 2000 - present.
- Reviewers and Section chairs of Conference of Production and Operations Management, 2000 – 2002.
- Business Network Committee, Crane House, Louisville, KY 40203, Fall 2000-Spring 2001.

- Web Design for Breakthrough Laboratories, Louisville, KY, Fall 2000-Fall 2001.

## **Academic Service**

### ***University of Missouri-Rolla***

- Feasibility study of an UMR Sponsored on-site Childcare Facility Initiative, Fall 2006 - present.
- UMR Budgetary Committee, Fall 2007 - Present
- UMR SAP Campus Coordinator, Fall 2003 - Present
- UMR Faculty Affair Committee, Fall 2006 – Spring 2006
- UMR Academic Council Committee, Fall 2003 – Spring 2006.
- UMR Technology-Enabled Classroom (TEC) initiative, Spring 2004 – Fall 2006
- UMR Computer Policy Committee, Fall 2003 – Fall 2006
- UMR ITCC Computer Learning Center Subcommittee, Spring 2005 – Fall 2006
- International Collaboration Program with National United University, Spring 2007 – present
- International Collaboration Program with Fu-Jen University, Spring 2007 - present
- AACSB Accreditation Committee, Fall 2005 - present
- MBA Planning Committee, Spring 2004 - present
- MBA Integrated Curriculum Design Committee, Spring 2005 - present
- OURE Department Coordinator, Fall 2004 - Present
- Committee on Faculty Conduct, Fall 2006 - present
- MSDN Academic Alliance Administrator and coordinator for Departments of Business Administration/Information Technology, Computer Sciences, and Electrical Computer Engineering, Fall 2003 – present
- Oracle Academic Initiative (OAI) administrator, Fall 2003 – present
- The UMR Woman’s Day Celebration Planning Committee, Fall 2006 – Spring 2007
- Department Chair/Associate Dean Search Committee Co-Chair, Fall 2004 –Spring 2005
- Department Faculty Search Committee, Fall 2004, Spring 2005, Fall 2005, Spring 2006, Fall 2006, Spring 2007
- Department Graduate Assistant Office Coordinator, Spring 2005 – Fall 2006

### ***University of Louisville***

- Assistant Research Director, UPS Center for World-wide Supply Chain Management (UPS*i*), Logistics and Distribution Institute, Fall 2001 – May 2003
- CIS subcommittee – curricular revision, Fall 2002 - present
- Committee of Scholarships, Honors and Awards, Fall 2002 – May 2003
- Faculty Development Committee, Fall 2001- Spring 2002
- Library Committee, Fall 2000
- International Studies Committee, Spring 2000
- CIS Curricular Revision Subcommittee, Spring 2000-Spring 2001
- CIS subcommittee - graduate Assistantship, Spring 2000
- CIS 110 & CIS111 Success Factor subcommittee, Spring 2000 – Fall 2001
- Library Committee, Fall 2000-Spring 2000

- CIS subcommittee - undergraduate Scholarship, Fall 2000
- Coordinate and develop teaching materials for CIS110, Fall 1999 – Fall 2001
- Coordinate CIS390-01 and CIS390-02, Fall 1999 – May 2003

### ***Anderson College***

- Web design committee, Spring 1999
- Curriculum development committee, Fall 1998 – Spring 1999
- Steering Committee of multi-media enhanced interactive computer teaching classrooms, Spring 1998 – Spring 1999
- Faculty Training and Development Committee, Fall 1997 – Spring 1999
- Information Technology Committee, Fall 1997 – Spring 1999

### **Professional Development Activities**

- Advanced Predictive Modeling Using SAS Enterprise Miner, SAS World Headquarters, Carry, NC (7/22/2008-7/24/2008)
- SAP Curriculum Congress, Atlanta, GA (2/29/2008 – 3/1/2008)
- SAP Business One, , Atlanta, GA (2/27/2008 – 2/28/2008)
- Enterprise SOA and Business Processes, Chico, CA (7/30/2007 – 8/3/2007)
- Applied Analytics Using SAS Enterprise Miner 5, Long Beach, CA (7/17/2007-7/20/2007)
- SAS SAS Programming Essentials for Educators, Long Beach, CA (7/15/2007-7/16/2007)
- SAP Curriculum Congress, Vancouver, British Columbia, Canada (3/3/2007 – 3/5/2007)
- SAP NetWeaver workshop, Vancouver, British Columbia, Canada (3/1/2007 – 3/2/2007)
- SAP ERP Simulation, Fayetteville, AR (10/31/2006 – 11/2/2006)
- SAP Simulation Workshop, Toronto, CA (6/12/2006 – 6/14/2006)
- SAP Academic Congress, Dallas (Grapevine), Texas (3/4/2006- 3/5/2006)
- SAP Advance Planning Optimization/Supply Chain Workshop, Dallas (Grapevine), Texas (3/2/2006 – 3/3/2006)
- Certi Seminar in Problem Based Learning in the Classroom (9/16/2005)
- SAP Strategic Enterprise Management Systems, Chico, CA (7/18/2005 – 7/22/2005)
- SAP Academic Congress, Atlanta, GA (3/4/2005 – 3/8/2005)
- On Course Workshop: Helping Student Get On Course, Rolla, MO (1/6/2005 – 1/7/2005)
- Certi Seminar in Using Personal Response System in Classroom Rolla, MO (10/29/2004)
- Active Learning & Interactive Lectures Seminar, Rolla, MO (10/1/2004)
- SAP Enterprise Portals, Columbia, MO (8/16/2004 – 8/19/2004)
- SAP Supply Chain Management Basics – Planning & Manufacturing (7/26/2004 -7/30/2004)
- SAP Strategic Enterprise Management, Chico, CA (7/11/2004 – 7/16/2004)
- SAP Academic Congress, Orlando, FL (2/27/2004 – 3/1/2004)
- SAP: Business Integration II, LSU, LA (1/19/2004 – 1/23/2004)
- SAP: Business Integration I, LSU, LA (1/11/2004 – 1/16/2004)
- Introduction to SAP, Rolla, MO (10/24/2003 – 10/25/2003)
- Freshman Faculty Forum, Rolla, MO(fall 2003 – Spring 2004)
- Cold Fusion Development, Louisville, KY (7/15/2002 – 7/20/2002)
- Visual Studio Development, Louisville, KY (2002)

- MSDN Training: Windows Programming, Louisville, KY (2001)
- MSDN Training: Visual Basic, Louisville, KY (7/22/1998 – 7/24/1998)
- Novell Tech Share, Atlanta, GA (6/13/1997 – 6/14/1997)

### **Outreach Activities**

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- Opportunity for Undergraduate Research (OURE) Judge (2005, 2006)
- UMR Family Day (2004)
- Chancellor's Scholarship Interview (2004)
- SMIS Open House (2003-present)