

Wen-Bin (Vincent) Yu

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EDUCATION

Ph.D., Computer Science and Engineering, Graduated with Dean's Citation, University of Louisville, Louisville, KY, May 2003.

Dissertation title: "*Agent-based Demand Forecasting in Supply Chain Management*"

Advisor: Dr. James H. Graham, Vogt Endowed Chair.

Management Science Ph.D. program, Clemson University, Clemson, SC, 1996-1999

Master of Science, Textile Science, Clemson University, Clemson, SC, December 1995.

Thesis title: "*A Quantitative Analysis of Spinning Performance and Yarn Quality*"

Advisor: Dr. Clarence D. Rogers, J. R. Swetenburg Professor of Textiles.

Bachelor of Science, Department of Mathematical Science, National Cheng-Chi University, Taipei, Taiwan, R.O.C., June 1988.

ACADEMIC EXPERIENCE

2009 to present Associate Professor, Department of Business and Information Technology, Missouri University of Science and Technology, Rolla, MO

2006 to 2009 Assistant Professor of Information Science & Technology, Department of Business and Information Technology, Missouri University of Science and Technology, Rolla, MO

2003 to 2006 Assistant Professor of Information Science & Technology and Computer Science, (joint appointment), University of Missouri-Rolla, Rolla, MO

NON-ACADEMIC EXPERIENCE

1990 to 1993 Associate Engineer, China Textile Institute, Taipei, Taiwan.

PROFESSIONAL MEMBERSHIP

Association for Information Systems (AIS)

Decision Science Institute (DSI)

International Association for Computer Information Systems (IACIS)

International Consortium for Electronic Business (ICEB)

- Founding Individual Member

AWARDS AND HONORS

- 2022 “Missouri University of Science and Technology Outstanding Teaching Award for 2021-22”, Missouri University of Science and Technology, December 2022.
- 2018 Best Learning and Education Research Paper Award at the 2018 Decision Sciences Annual Conference with a paper titled “Performance Dashboard in Higher Education: A University Career Service Case Study.”. Co-authored with B Lea.
- 2015 “Missouri University of Science and Technology Outstanding Teaching Award for 2014-15”, Missouri University of Science and Technology, November 2015.
- 2015 “Global Learning 2015 Outstanding Teaching Award of Excellence”, Missouri University of Science and Technology, April 2015.
- 2012 “Global Learning 2012 Outstanding Teaching Commendation Award”, Missouri University of Science and Technology, April 2012.
- 2011 “Global Learning 2011 Outstanding Teaching Award of Excellence”, Missouri University of Science and Technology, May 2011.
- 2005 “Intelligent Enterprise Decision Simulator: Architecture Design and a Prototype.” British Telecom Short-Term Research Fellowship. Co-recipient with B. Lea., June 2005.
- 2003 The Graduate Dean’s Citation, Election to Phi Kappa Phi National all University Honor Society. University of Louisville.
- 2001 Graduate Research Assistant of the Year, Logistics and Distribution Institute, University of Louisville.
- 1999 Election to Alpha Epsilon Lambda (AEL), the honor society of Graduate and Professional School Students, Clemson University.
- 1998 Fogarty International Student Paper Competition, first place, American Production and Inventory Control Society (APICS), co-winner with H. Moss

RESEARCH

Interest

Business Intelligence, Text/Data mining, Software Agent Systems; Information Retrieval; Business Process Reengineering; Knowledge Management; Applications in Social Network. Applications in Supply Chain Management.

Refereed Publications

Journals

1. “Utilizing Interactive Dashboard to Improve University Career Service and Satisfaction: A Case Study”. Lea, B-R., Yu, W. *International Journal of Business and Systems*, Forthcoming. 2022
2. “The Impact of Environmental News Stories on Twitter Content”, Maxwell, J., P. Ayawah, L. Shaffer, W. Yu, and B. Lea. *Issues in Information Systems*, Vol. 23, No. 4, pp. 62-69, 2022.
3. “Critical Mineral Trend Analysis Using Text Mining”, Adiwokor, S., E. Gyawu, K. Johnson, A. Kosgey, and W. Yu, *Issues in Information Systems*, Vol. 23, No. 4, pp. 70-80, 2022.

4. "Influential Factors in Decision Support Capabilities of a Mobile-Enabled Interactive Analytical Dashboard System", Lea, B., W. Yu, and H. Min *International Journal of Business and Systems Research (IJBSR)*, Vol. 16, No. 4. pp. 423-477, 2022.
5. "The U.S. - Mexico Border Wall - A Sentiment Analysis", Easter, J., Q. Yang, C. Daches, W. Yu and C. Claybaugh, *Issues in Information Systems*, Vol. 20, No. 4, pp. 123-129, 2019.
6. "Computer Knowledge on the Decision Support Capabilities of Interactive Analytical Dashboard" Lea, B., W. Yu, and H. Min, *Issues in Information Systems*, Vol. 19, No. 4, pp. 140-149, 2018
7. "Data Visualization for Assessing the Biofuel Commercialization Potential within the Business Intelligence Framework" Lea, B., W. Yu, and H. Min, *Journal of Cleaner Production*, Vol. 188, pp. 921-941. 2018
8. "Data Visualization: A Case Study in Renewable Energy" Lea, B., W. Yu, and H. Min, *Issues in Information Systems*, Vol 18, No 3, pp. 195-205, 2017.
9. "Sentiment Analysis of Twitter Data for Demonetization in India – A Text Mining Approach" Roy, K., D. Kohli, R. Kuma, R. Sahgal and W. Yu, *Issues in Information Systems*, Vol. 18, No. 4, pp 9-15, 2017.
10. "Diffusion of a Professional Social Network- Business School Graduates in Focus", Claybaugh, C., P. Haried, and W. Yu, *International Journal of Human Capital and Information Technology Professionals (IJHCITP)*, Vol. 6, No.4, pp 80-96, 2015.
11. "The Development of Automated Solder Bump Inspection Using Machine Vision Techniques", Wu, W., C. Hung, and W. Yu, *International Journal of Advanced Manufacturing Technology*, Vol. 69, No. 1-4, pp 509-523, 2013.
12. "Subpixel Detection of Circular Objects Using Geometric Property", Wu, W. and W. Yu, World Academy of Science, Engineering and Technology, International Science Index 32, *International Journal of Mathematical, Computational, Physical, Electrical, and Computer Engineering*, Vol: 3, No:8, pp 572- 576, 2009
13. "Collaborative Planning, Forecasting, and Replenishment: Demand Planning in Supply Chain Management", Min, H. and W. Yu, *International Journal of Information Technology and Management*, Vol. 7, No. 1, pp. 4-20, 2008.
14. "Reengineering Call Center Operations Using Simulation" Min, H. and V. Yu, *International Journal of Service Technology and Management*, Vol. 9, No.1, pp. 71-78, 2008.
15. "A Theoretic Framework Integrating Text Mining and Energy Demand Forecasting" Yu, W, B. Lea and B. Guruswamy, *International Journal of Electronic Business Management*, Vol. 5, No. 3, pp. 211-224, 2007.
16. "Social Network Enhanced Digital City Management and Innovation Success: A Prototype Design" Lea, B., Yu, W, and P. Kannan, *Journal of International Technology and Information Management*, Vol.16, No. 3, pp. 1-22, 2007.
17. "Demand Forecasting Using Intelligent Agents with Application to a Call Processing Center," Yu, W. and J.H. Graham. *International Journal of Computers and Their Applications*, Vol. 14, No 4. pp. 201-210, 2007.

18. "Enhancing Business Networks Using Social Network Based Virtual Communities," Lea, B., W. Yu, N. Maguluru, and M. Nichols, *Industrial Management and Data Systems*, Vol. 106, No. 1 and 2, pp. 121-138, 2006.
19. "A Prototype Multi-agent ERP System: An Integrated Architecture and a Conceptual Framework," Lea, B., M. Gupta and W. Yu, *Technovation*, Vol. 25, No. 4, pp. 433-441, 2005.
20. "Cost Benefit Advisor System," Jarvis, C., J. Peck, S. Davis, V. Yu, and A. Woszczyński. *International Journal of Clothing Science and Technology*, Vol. 12, No. 6, pp. 93-94, 2000.
21. "Incentive Pay Program," Peck, J., C. Jarvis, S. Davis, V. Yu, and A. Woszczyński. *International Journal of Clothing Science and Technology*, Vol. 12, No. 6, pp. 98-99, 2000.
22. "Toward the Estimation of Bottleneck Shiftiness in a Manufacturing Operation," Moss, H. and W. Yu. *Production and Inventory Management Journal*, Vol. 40, No. 2, pp. 53-58, second quarter 1999.

Manuscripts in preparation

1. "Corporate spin-off disclosure statement analysis: A text mining approach" with Ying-Chou Lin and Aravindh Sekar.

Book Chapter

1. "Exploring user feedback of an e-learning system: A text mining approach," "Yu, W-B and Luna, R., in *Lecture Notes in Computer Science 8018*, Yamamoto S. (editor), Springer-Verlag, 2013, pp. 182-191.
2. "A Multiple-Agent Based System for Forecasting the Ice Cream Demand Using Climatic Information." W. Yu, H. Min, and B. Lea, in *Management Intelligent System--Advances in Intelligent Systems and Computing*, edited by J. Cassillas, F. J. Martinez-Lopez, and J. M. Corchado, Berlin, Heidelberg: Springer-Verlag, Vol. 171, part 6: 227-238, 2012.

Conference Proceedings

1. "Text Mining on Consumer Reviews of Internet of Things (IoT) Applications", H. Xiao, C. Li, Y. Xu, Wen-Bin Yu and B. Lea, *2018 proceedings of the 49th Annual Meeting of the Decision Sciences Institute*, pp. 1673-1678, Chicago IL, November 17-19, 2018
2. "Performance Dashboard in Higher Education: A University Career Service Case Study", B. Lea and W. Yu, *2018 proceedings of the 49th Annual Meeting of the Decision Sciences Institute*, pp. 1163-1177, Chicago IL, November 17-19, 2018 (Winner of Best Learning and Education Research Paper Award at the 2018 Decision Sciences Annual Conference).
3. "Sentiment Analysis of Public Opinions: A Case Study on Tesla's Autonomous Electric Cars" W. Yu, B. Lea, A. Mohini, and S. Soni., *2017 proceedings of the 48th Annual Meeting of the Decision Sciences Institute*, pp 1292171-1 -- 1292171-9, Washington, DC, November 18-20, 2017

4. "Effectiveness and Efficiency of Enterprise Analytical Dashboard on Decision Support: A Case Study" B. Lea and W. Yu, *2017 proceedings of the 48th Annual Meeting of the Decision Sciences Institute*, pp. 1291893-1 -- 1291893-12, Washington, DC, November 18-20, 2017
5. "Impact of Device Type, Demographics, and Computer Knowledge on Effectiveness and Efficiency of Enterprise Visual Analytical Applications", B-R Lea, W. Yu, C. Claybaugh, and M. Long, *2016 Proceedings of the Nineteenth SAP Academic Conference Americas: Building the Talent of the Future for the Digital Enterprise*, pp. 15-18, San Diego, CA, February 16-18, 2016.
6. "Exploring User Feedback of an E-Learning System: a Text Mining Approach", W. Yu, and R. Luna, *Proceedings of the 15th international conference on Human Interface and the Management of Information: information and interaction for learning, culture, collaboration, and business – Vol: III*, pp. 182-191, Las Vegas, Nevada, July 21 - 26, 2013.
7. "Analysis of Pharmaceutical Patent Applications to Determine Trends in Pharmaceutical Industry Using Text-mining Approach" T. San-Adams and W. Yu, *Proceedings of the 42nd Annual Conference of Decision Sciences Institute (DSI-2011)*, pp. 4441-4446, Boston, MA, November 19-22, 2011.
8. "Applying Text Mining in Corporate Spin-Off Disclosure Statement Analysis: Understanding the Main Concerns and Recommendation of Appropriate Term Weights" A. Sekar, W. Yu, Y. Lin, and B. Lea, *Proceedings of the 42nd Annual Conference of Decision Sciences Institute (DSI-2011)*, pp. 4751-4756, Boston, MA, November 19-22, 2011.
9. "Subpixel detection of circular objects using geometric property" W. Wu and W. Yu, *Proceedings of World Academic of Science, Engineering and Technology*, Vol. 56 (ISSN: 2070-3724), pp. 236-240, Singapore, August 2009.
10. "Application of Text Mining and Data Mining in Paleontology Taxon Recommendation and Search System" B Lea, W, Yu and F. Oboh-Ikuenobe, *Proceedings of the 38th Annual Conference of Decision Sciences Institute (DSI-2007)*, pp. 5091-5096, Phoenix, Arizona, November 17-20, 2007.
11. "Sentiment Analysis: Retrieving Positive or Negative Polarities in News Articles Using Information Agents" W. Yu, B. Lea, and B. Guruswamy, *Proceedings of the 37th Annual Conference of Decision Sciences Institute (DSI-2006)*, pp. 29241-29246. San Antonio, TX, November, 2006.
12. "Application of Text Mining in Developing Standardized Descriptions of Taxa in Paleontology: A Framework," Yu, W., Oboh-Ikuenobe, F. and Lea, B. *Geoinformatics 2006 conference*, p.37, Reston, Virginia, May 10-12, 2006.
13. "A Social Network Based Information City for Innovation Success," B. Lea, W. Yu, P. Kannan, *Proceedings of the 36th Annual Conference of Decision Sciences Institute (DSI-2005)*, pp. 14031-14036, San Francisco, CA, November 19-22, 2005.
14. "Social networks in the technology era: roles of digital cities in enhancing business networks". B. Lea, W. Yu, N. Maguluru and M. Nichols, *Proceedings of 2005 Americas Conference on Information Systems (AMCIS-2005)*, pp. 3501-3513, Omaha, Nebraska, August 11-14, 2005.

15. "Reengineering Call Center Operations Using Simulation: A Case Study," H. Min and W. Yu, *Proceedings of the 10th Annual Meeting of Asia-Pacific Decision Sciences Institute* (APDSI), on CD ROM, Taipei, Taiwan, June 28 - July 2, 2005.
16. "Conceptual Framework of Using Collaborative Filtering Algorithms to Enhance Keyword Search" S. Deokule, W. Yu and B. Lea, *Proceedings of the 10th Annual Meeting of Asia-Pacific Decision Sciences Institute*(APDSI), on CD ROM, Taipei, Taiwan, June 28 - July 2, 2005.
17. "A Review of Municipally Owned Information Cities between the United States and Europe," B. Lea, W. Yu, Y. Ma, *Proceeding of International Association of Computer Information Systems Pacific 2005 Conference* (IACIS), pp. 530-537, Taipei, Taiwan, May 19-21, 2005
18. "Collaborative Planning, Forecasting, and Replenishment: Demand Planning in Supply Chain Management," H. Min and W. Yu, *Proceedings of the 4th International Conference on Electronic Business* (ICEB2004), pp. 58-62, Beijing, China, Dec 5-9, 2004.
19. "Multi-agent Based Forecasting for Ice Cream Sales Using Climatic Information," W. Yu, J. H. Graham and H. Min, *Proceedings of the 34th Annual Meeting of the Decision Sciences Institute* (DSI-2003), on CD ROM, Washington, DC, November 22-25, 2003.
20. "Call Center Demand Forecasting Using Intelligent Agents," W. Yu and J. H. Graham, *Proceedings of the 12th Conference on Intelligent and Adaptive System and Software Engineering* (IASSE-2003), pp. 63-66, San Francisco, CA, July 9-11 2003.
21. "Dynamic Pattern Matching Using Temporal Data Mining for Demand Forecasting," W. Yu, J. H. Graham and H. Min. *Proceedings of the 2nd International Conference on Electronic Business*(ICEB 2002), pp. 400-402, Taipei, Taiwan, December 10-13, 2002.
22. "A Multi-agent Based ERP Architecture," B. Lea and W. Yu, *Proceedings of the 33rd Annual Meeting of the Decision Sciences Institute* (DSI-2002), pp. 735- 740, San Diego, CA, November 23-26, 2002.
23. "A Multiple Agent Architecture for Demand Forecasting in Electronic Commerce Supply Chain Systems," W. Yu and J. H. Graham, *Proceedings of the 17th ISCA (The International Society for Computers and Their Applications, Inc) International Conference on Computers and Their Applications*, pp. 462-466, San Francisco, CA, April 4-6, 2002.
24. "Incentive Pay for Manufacturing Teams," J. Davis, C. Jarvis, W. Yu, W. Masuchun, and A. Wozcynski. *Proceedings of the 11th International DAAAM Symposium -- Intelligent Manufacturing & Automation: Man-Machine Nature*, pp. 111-112, Opatija, Croatia, October 19-21, 2000.
25. "Applying PCA (principal components analysis) to Examine the Influence of Fiber Properties on Roving and Yarn Quality Characteristics," W. Yu and C. Rogers. *Proceedings of 1996 Beltwide Cotton Conferences*, Nashville, TN, January 1996.
26. "The Use of Principal Components Analysis to Optimize Spinning Performance," C. Rogers and W. Yu. *Proceedings of 1995 Beltwide Cotton Conferences*, Vol. 2, pp. 1404-1405, San Antonio, TX, January 4-7, 1995.

27. "A Quality Index of Cotton Warehouse Performance," C. Rogers and W. Yu. *Proceedings of 1995 Beltwide Cotton Conferences*, Vol. 1, pp. 707-709, San Antonio, TX, January 4-7, 1995.
28. "Statistical Models for Dimensional and Mechanical Characteristics of Knit Fabrics," R. Matic-Leigh and W. Yu. *Proceedings of 1994 Beltwide Cotton Conferences*, Vol. 3, pp. 1653-1658, San Diego, CA, January 5-8, 1994.
29. "Forming Geometric Patterns in Single Jersey with Fancy Yarn," W. Yu, T. Liu, and S. Soong. *Proceedings of the 2nd Asian Textile Conference*, Vol. 1, pp. 348-352, Seoul, Korea, October 18-20, 1993.

Editor Reviewed Paper

1. "A Conversation with Charles P. Bonini of Stanford University" Wen-Bin 'Vincent' Yu, A feature interview appeared in Decision Line, Vol. 40 iss. 2, pp. 4-5, 8, March 2009.

National/International Conference Presentations, Invited Talks and Research Abstracts

1. "The impact of environmental news stories on Twitter content", Maxwell, J., P. Ayawah, L. Shaffer, W. Yu, and B. Lea. Presented at the 62nd IACIS Annual Conference, Golden Nugget, Las Vegas, Nevada, October 5 - 8, 2022.
2. "Critical mineral trend analysis using text mining", Adiwokor, S., E. Gyawu, K. Johnson, A. Kosgey, and W. Yu,. Presented at the 62nd IACIS Annual Conference, Golden Nugget, Las Vegas, Nevada, October 5 - 8, 2022.
3. "The U.S. - Mexico Border Wall - A Sentiment Analysis", Jeffrey Easter, Qiuyue Yang, Choji Daches, Wen-Bin Yu, and Craig Claybaugh, Presented at the 59th Annual IACIS Conference, Clearwater Beach, Florida, October 2-5, 2019.
4. "Computer Knowledge on the Decision Support Capabilities of Interactive Analytical Dashboard" Lea, B., W. Yu, and H. Min, Presented at the 58th Annual IACIS Conference, Clearwater Beach, Florida, October 3 - 6, 2018
5. "Data Visualization: A Case Study in Renewable Energy" B. Lea, W. Yu, and H. Min, presented at 57th Annual IACIS Conference Philadelphia, PA, October 4-7, 2017.
6. "Sentiment Analysis of Twitter Data for Demonetization in India – A Text Mining Approach" Kaustav Roy, Disha Kohli, Rakeshkumar Kathirvel Senthil Kuma, Rupaksh Sahgal, and Wen-Bin Yu, presented at 57th Annual IACIS Conference Philadelphia, PA, October 4-7, 2017.
7. "Utilizing Genotype and Phenotype Data in Visual Discovery to Support Evidence-Based Practice in Descriptive, Predictive, and Prescriptive", B-R. Lea, W. Yu, C. Claybaugh, D. Uetrecht, Ozark Biomedical Initiative Collaborative Research Symposium, Rolla, MO, February 27, 2016.
8. "Using Text Mining to Examine User Feedback of a Web-based Learning System", N. Katerattanakul, W. Yu, and R. Luna, **Research Abstract and Presentation** The 41st Annual Meeting of the Decision Sciences Institute (DSI-2010), San Diego CA, November 20-23, 2010.
9. "Quantifying the Usage of Multimedia on a Web-based E-Learning Module" P. Banerjee, W. Yu, and Ronaldo. Luna, **Research Abstract and Presentation**, The 41st

Annual Meeting of the Decision Sciences Institute (DSI-2010), San Diego CA, November 20-23, 2010.

10. "Investigation of Factors on Effectiveness of Clicker Classroom Adoption" Bih-Ru Lea and Wen-Bin Yu, **Research Abstract** and **Presentation**, Decision Sciences Institute 40th Annual Meeting, New Orleans, LA, November 2009.
11. "Information-Driven Business Forecasting: A Text Mining Approach" **Invited talk** presented in a research seminar for the Department of Industrial Engineering and Management of I-Shou University, Taiwan ROC, June 20th 2007.
12. "Enhancing Supply Chain Management with a Text Mining Enhanced Stakeholder Monitor" with B. Lea, **Research Abstract** and **Presentation**, 18th Annual POMS (Production and Operations Management Society) Conference, Dallas, Texas, May 4-7, 2007.
13. "A Framework of Information Retrieval Agents Enhanced Demand Forecasting with Keywords Generated by Text Mining," **Research Abstract** and **Presentation**, The 36th Annual Meeting of the Decision Sciences Institute (DSI-2005), San Francisco CA, November 19-22, 2005.
14. "Information Sharing With RFID and Agent-Based System in a Supply Chain Environment," **Research Abstract** and **Presentation**, The 35th Annual Meeting of the Decision Sciences Institute (DSI-2004), Boston, MA, November 20-23, 2004.
15. "Pattern Matching Demand Forecasting for New Products or Products with Short Product Cycles," **Research Abstract** and **Presentation**, The 33rd Annual Meeting of the Decision Sciences Institute (DSI-2002), San Diego, CA, November 23-26, 2002.
16. "Using an Intelligent Agent as an ERP Implementation Alternative," INFORMS (The Institute for Operations Research and the Management Sciences) **Presentation**, 2001 Annual Meeting, Miami Beach, Florida, November 4-7, 2001.
17. "ERP Simulation Design for Just-in-Time Production with Activity-Based Costing," Poster **Presentation**, 2000 Winter Simulation Conference, Orlando, FL, December 10-13, 2000.
18. "The Impact of Safety Stock Selection and Management Accounting Alternatives on Manufacturing Performance," B. Lea and W. Yu. **Presentation** Annual POMS (Production and Operations Management Society) Conference, San Antonio, TX, April 1-4, 2000.
19. "A Simulation Model for the Customer Service Department in Healthcare Recoveries Inc.," **Invited Presentation**, IIE (the Institute of Industrial Engineers) Simulation Solutions 2000, Hilton Head Island, SC, March 20-22, 2000.

Working Papers

1. "Reengineering Call Center Operations Using Simulation: A Case Study," with H. Min. Working paper series no.2002-4, UPS Center for Worldwide Supply Chain Management, Logistics and Distribution Institute, University of Louisville, Louisville KY.
2. "Dynamic Pattern Matching for Demand Forecasting: A Temporal Data Mining Approach," with J. H. Graham and H. Min. Working paper series no. 2002-5, UPS

Center for Worldwide Supply Chain Management, Logistics and Distribution Institute, University of Louisville, Louisville KY.

3. “Collaborative Planning, Forecasting, and Replenishment: Demand Planning in Supply Chain Management,” with H. Min. Working paper series no.2003-6, UPS Center for Worldwide Supply Chain Management, Logistics and Distribution Institute, University of Louisville, Louisville KY.

Professional Presentations

1. “A Text Mining Enhanced Stakeholder Monitor in an Intelligent Enterprise Decision Simulator” School of Management and Information Systems Research Seminar, University of Missouri-Rolla October 5, 2005.
2. “Information Retrieval: A Text Mining Approach”, School of Management and Information Systems Research Seminar, University of Missouri-Rolla, October 22, 2004.
3. “ERP Implementation and Software Agents,” Research Seminar, College of Business and Public Administration, University of Louisville, April 2002.
4. “The Research in Integration of Interdependent Textile Processes,” The 1st Annual Graduate Student Research Forum, Clemson University, Clemson, SC, April 2, 1996.
5. “Integration of Interdependent Textile Processes,” The 4th Annual NTC (National Textile Center) Forum, Research Triangle Park, NC, January 24-26, 1996.
6. “Current Development of Environmental Ergonomics in the Field of Textiles,” presented (in Chinese) in the conference on the Trend of International Special Textiles, Taipei, Taiwan, February 12, 1993.
7. “Knit Fabric Geometry” and “The Application of Knit Fabric Geometry,” (in Chinese) lectures in the training courses of The Shrinkage Control Technique of Cotton Knit Fabrics for Taiwanese local textile industry, Taipei, Taiwan, Oct. 1991 – Sept. 1992.

Grants, Funded Research Projects

Awarded

1. “EnterpriseLive! Phase I: Building an Integrated Living Business Simulation Platform”, Infrastructure Enablement Proposal, Ignition Grant for Sustainable Educational Transformation (IGSET) Grant, Missouri University of Science and Technology. Co-PI (15.5%) Received: \$100,000, Shared credit: \$15,500, 2022 –2024.
2. “Introduction of GIS into Civil Engineering Curricula”, National Science Foundation, award #: 0717241, Division of Undergraduate Education. Co-PI (15%). Received: \$499,794, shared credit: \$74,969. 2007-2010.
3. “UMR and Monsanto Partnership Phase I - Feasibility Investigation” Monsanto Co. St Louis, MO. Co-PI (25%). Received: \$14,272, shared credit: \$3,568. 19th Oct.- 28th Dec., 2007.
4. “The Development of an Innovation Information Infrastructure” National Science Foundation, Award # 0332378, Division of Industrial Innovation and Partnerships, Received: \$600,000, shared credit: \$54,000(9%). Note: A multi-campus grant, Missouri S & T’s share: \$180,000, shared credit: \$54,000 (30%) 2003-2006.

Summary: Total Received—1,114,067, Shared Credit—\$ 132,537.

Theses Advised

1. “A conceptual framework of using collaborative filtering algorithms to enhance keyword search”, by Shreyas Deokule, 2005
 2. “Designing, managing and evaluation a social network based information city for innovation success”, by Prashanth Kannan (Co-advisor: Bih-Ru Lea), 2006
 3. “A framework of text mining approach for sentiment analysis of news articles using information agents”, by Balasubramanian Guruswamy, 2006
 4. “A pilot study in an application of text mining to learning system evaluation”, by Nitsawan Katerattanakul, 2010
 5. “Applying text mining incorporate spin-off disclosure statement analysis: understanding the main concerns and recommendation of appropriate term weights”, by Aravindh Sekar, 2011
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TEACHING

Associate Professor, Missouri University of Science and Technology, Rolla MO

Undergraduate:

IST 1551 Implementing Information Systems: User Perspective, Fall 2021.

IST 243/3343 Systems Analysis, Spring 2010-12, Spring 2014-22.

ERP/IST 301/4444 Introduction to Data Warehouses, Spring 2013, Spring 2018-22

Graduate:

ERP 345/5410 The Use of Business Intelligence, Fall 2009-11, 2013-22, Summer 2015-22.

ERP/IST 444/6444 Data Warehouse Essentials, Spring 2010-22.

IST 443/6443 Information Retrieval and Analysis, Fall 2009-11, 2013-22.

Assistant Professor, (A joint appointment between Computer Science and Information Science & Technology Departments from 2003 to 2006), Missouri University of Science and Technology/ University of Missouri-Rolla, Rolla MO

Undergraduate:

IST 221 Internet Concepts and Applications, Spring 2004, Fall 2004, and Fall 2005

IST 243 Systems Analysis, Spring 2005- 2009.

CS 228 Introduction to Numerical Methods, Fall 2003-2006, Spring 2005.

Graduate:

ERP 345 The Use of Business Intelligence, Fall 2006 – Fall 2008.

ERP/IST 444 Data Warehouse Essentials, Spring 2009.

IST 348 Strategic Enterprise Management System, Spring 2007.

IST 352 Advanced Web Development, Fall 2007.

IST 443 Information Retrieval and Analysis, Fall 2008.
CS 401 Modeling and Simulation in Multiagent Systems, Spring 2006.
MBA 422 (team-taught) Core: Business Analysis, Spring 2008
MBA 423 (team-taught) Core: Decision Making, Spring 2008
MBA 426 (team-taught) Core: Capstone, Spring 2008

PROFESSIONAL DEVELOPMENT ACTIVITIES

AACSB Accreditation

AACSB International Associate Deans Conference, St. Pete Beach, FL, November 14-16, 2011.

Curriculum Development Activities

“SAS® Visual Text Analytics in SAS® Viya®” online Web class for university faculty,
August 8, 10, 12, 2022

“SAP Summer Bootcamp: Data Warehouse Cloud”, SAP UCC online Bootcamp, June 22-23,
2022

“SAP Summer Bootcamp: Introduction to Data Analysis in SAP Analytics Cloud”, SAP UCC
online Bootcamp, June 20-21, 2022

“11th ERPsims User Group Meeting and Introduction to ERPsims and Advanced ERPsims
workshops - ERPsims Level 1” HEC Montréal, Canada, June 13-15, 2022.

“SAS Visual Text Analytics in SAS Viya”, online Web class for university faculty, Oct 05-
08, 2021

“Introduction to Data Analysis in SAP Analytics Cloud (SAC)”, SAP UCC online Bootcamp,
July 21-22, 2021

“SAP Data Warehouse Cloud”, SAP UCC online Bootcamp, July 19-20, 2021

“Online Teaching Certification Seminar: Excellence in Online Teaching!”, UM system
teaching seminar, August 2020.

“Introduction to SAP BW/4HANA” and “Data Analytics with SAP BW/4HANA” SAP UCC
2019 Summer Faculty Workshops at UW-Milwaukee July 16-19, 2019

“Analytics 1 and 2” SAP UCC 2018 Summer Faculty Workshops at UW-Milwaukee July 16-
19, 2018

“Text Analytics Using SAS Text Miner”, SAS Academic Programs Summer Professor
Workshops, Cary, NC, July 13-14, 2017

“Introduction to SAP HANA and HANA Application Development” SAP UCC 2016 Summer
Faculty Workshops at UW-Milwaukee, Milwaukee, WI, July 18-21, 2016

“Text Analytics Using SAS Text Miner”, SAS Global Academic Workshops, Cary, NC, July
13-14, 2015

“Advanced Predictive Modeling Using SAS(R) Enterprise Miner” and “SAS Visual Analytics for Professors”, SAS Global Academic Workshops, San Diego, CA, January 12-15, 2015

“Analytics” workshop, SAP Academic Conference Americas 2014 Atlanta, GA, March 27-29, 2014

“SAP HANA” workshop, SAP University Alliances 2013 summer workshops, Milwaukee, WI, July 9-12, 2013

“Analytics” workshop, SAP University Alliances summer on-line workshop, June 17-21, 2013

“Analytic Applications and Global Bike, Inc.” workshops, SAP University Alliances Curriculum Congress 2013, Milwaukee, WI, February 21-13, 2013

“Analytics Application (Business Intelligence)” and “Data Warehousing” workshops, SAP University Alliances Americas Summer 2012 workshops, Milwaukee, WI, July 9-12, 2012

“Sybase® Unwired Platform (mobile)” and “Analytics” workshops, SAP Academic Conference Americas 2012, San Antonio, TX, March 22-24, 2012.

“Business Intelligence (BI)” workshop, SAP University Alliances Curriculum Congress 2011, Monterey, CA, March 10-12, 2011.

“SAS Advanced Predictive Modeling”, Rolla, MO, May 7th, 2010.

“Business Intelligence I & II” SAP University Alliances Summer Workshops at California State University-Chico. Chico, CA, August 4-8, 2008.

“Mining Textual Data Using SAS Text Miner” SAS Data Mining Training for Educators Summer Program. Cary, NC, July 24-25, 2008.

“SAP NetWeaver Business Programming” NetWeaver pre-conference workshop, SAP University Alliances Curriculum Congress '08, Atlanta, GA, February 28-March 1, 2008.

“Decision Tree Modeling and Advanced Predictive Modeling Using SAS Enterprise Miner” SAS Data Mining Training for Educators Summer Program. Cary, NC, August 7-10 2007.

“SAP Enterprise Portals” NetWeaver pre-conference workshop, SAP University Alliances Curriculum Congress '07, Vancouver, Canada, March 1-4, 2007.

“Data Mining Using SAP NetWeaver Business Intelligence” Pre-conference workshop, SAP University Alliance Curriculum Congress '06, Dallas (Grapevine), TX, March 2-5, 2006.

“BW Configuration & Data Warehousing: SAP University Alliances Workshops at California State University-Chico. Chico, CA, July 19- 23, 2004

“BW Reporting” SAP University Alliances Workshops at University of Missouri-Rolla, Rolla, MO, July 26-30, 2004.

“Introduction to ERP and SAP” University of Missouri-Rolla, Rolla, MO, October 23-25, 2003.

Teaching Enhancement Activities

“School of Management and Information System Faculty Retreat”, Osage Beach, MO April 13-15, 2007

“On Course: Two-day workshop in helping students get on course” January 6-7, 2005

“New Faculty Development Consortium” The 35th Annual Meeting of the Decision Sciences Institute, Boston, MA, November 20-23, 2004.

“New Faculty Teaching Scholar Program” University of Missouri System

Course Design Retreat: 30 September – 2 October 2004

Teaching Renewal Conference: 24-26 February 2005

Building Your Academic Portfolio: 16-18 May 2005

“On Course: professional instructional enhancement program” August 16-17 2004.

“Freshman Faculty Forum” University of Missouri-Rolla. 2003-2004

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“Forming Geometrical Patterns with Fancy Yarn in Weft Knitting,” Taiwan R.O.C. Patent: Invention No. 61954, 1993.

“FABENG (Fabric Engineering),” a computer software system for predicting the dimension and shrinkage of cotton knit fabric, copyright© China Textile Institute (developed by Yu, Wen-Bin, *et al*), Taipei, Taiwan, R.O.C., 1992.

UNIVERSITY SERVICE

University of Missouri System Level

UMRB (University of Missouri Research Board) reviewer, Feb 2004, Oct 2004, Feb 2005, Oct 2005, and Spring 2013 competitions.

Campus Level

Faculty Senate Fall 2022

Dean of the Kummer College of Innovation, Entrepreneurship, and Economic Development Search Committee Fall 2021 – Fall 2022

Missouri S&T - Information Technology/Computing Committee Fall 2020- Fall 2022

Undergraduate Research Conference, Faculty Judge for OURE Fellows and Sciences Poster Sessions, Spring 2014.

Chancellor’s Fellowship Poster Session, Faculty Judge, Spring 2013.

Graduate Research Showcase, Faculty Judge, Spring 2010, Spring 2012.

Tuition and Residence Committee, Fall 2011 - present

Graduate Council, Fall 2010 – 2014

Business & Information Technology department P/T committee representative on a Third Year Review committee, Spring 2010

Chancellor’s Committee for Diversity and Inclusion, Spring 2009- Fall 2012

Library and Learning Resource Committee, Fall 2006 – 2008

Public Occasions Committee, Fall 2004 – 2008

Departmental Level

Department Chair Search Committee, Spring-Fall 2011, Fall 2021-Fall 2022

Curriculum Committee, Fall 2012 – 2013

Assistant Chair and Transfer Students Advisor for IST major, Fall 2011 - 2014

MS IST Admission Committee, Fall 2011- 2013
AASCB Faculty Qualification Committee, Fall 2010 – Fall 2016
(Chair of the committee Fall 2011-2014)
AASCB Student Affairs Committee, Fall 2016 – present (Chair of the committee since Fall 2021)
AASCB Strategic Planning Committee, Fall 2021 - present
P & T Committee, Fall 2009 – present
Library Liaison for Business and Information Technology Department, Fall 2004 – present.
Website Renovation, Coordinator, Fall 2010 – Fall 2012
Marketing Faculty Search Committee, Fall 2009
IST Graduate Curriculum Committee, Fall 2008 – 2009.
IST Curriculum Committee, Fall 2007- Spring 2007
MBA Curriculum Committee, Fall 2007
Business Administration/Information Science and Technology Merger Committee, 2007
IST Faculty Search Committee, Fall 2005, Fall 2008, Fall 2010, Spring 2012

PROFESSIONAL SERVICE

Journal

Editorial board member and reviewer, International Journal of Business and Systems Research (IJBSR). 2007 – present.
Editorial board member and reviewer, Journal of Testing and Evaluation (JTE), 2012 – 2020.
Reviewer, Journal of Computer Information Systems (ICIS). 2022
Reviewer, International Journal of Service Technology and Management (IJSTM). 2007
Reviewer, International Journal of Electronic Business (IJEB). 2006
Reviewer, International Journal of Information Technology and Management (IJITM). 2006
Reviewer, International Journal of Internet and Enterprise Management (IJIEM), 2004

Conference

Reviewer, The 16th Pacific Asia Conference on Information Systems (PACIS 2012), Web 2.0 and Data Mining Track.
Reviewer, Annual Conference of the Decision Sciences Institute (DSI), 2003 - 2013.
Reviewer, IEEE Annual International Conference on Computer Software and Applications Conference (COMPSAC), 2005 and 2007.
Reviewer, Americas Conference on Information Systems (AMCIS), 2005 - 2006.
Reviewer, Asia Pacific Decision Sciences Institute Annual Meeting (APDSI), 2005
Section chair, Data, and Text Mining for Decision Support, Americas Conference on Information Systems (AMCIS), 2005.
Section chair, Text Evaluation, and Categorization, Annual Conference of the Decision Sciences Institute (DSI), 2005

Section chair, IT Managers and Professionals, Annual Conference of the Decision Sciences Institute (DSI), 2004.