

VITAE

| Name | Address | Phone |
|---------------------------------|--|---|
| Surya B Yadav (U.S. Citizen) | Rawls College of BA, Texas Tech University Lubbock, TX 79409 | Work: (806)834-2165 Cell: (806)577-5359 Email: surya.yadav@ttu.edu |

TEACHING INTERESTS

Primary teaching interests:

Systems Analysis and Design; Database Management Systems; Enterprise Application Development; and Research Methodologies in MIS.

Secondary teaching interests:

ERP Systems and Cyber System Security.

RESEARCH INTERESTS

1. Critical Infrastructure Resilience.
2. Intelligent Information Retrieval Systems.
3. Role of Biological Information Systems in the Origin of Life.

EDUCATION

Doctor of Philosophy in Business Administration, Georgia State University, Atlanta, Georgia, 1981.

Major Field: Information Systems

Supporting Field: Computer Science

Minor Field: Quantitative Methods

Dissertation: A Methodology for Modeling an Organization to Determine and Derive Its Information System Requirements.

Master of Business Information Systems, Georgia State University, 1978.

Concentration Area: Business Information Systems

Minor Area: Quantitative Methods

Master of Technology, Indian Institute of Technology Kanpur, India, 1974.

Major Area: Computer Science

Minor Area: Electronic Circuits

Thesis: A COBOL Support Package for Flowcharting

**Bachelor of Electrical Engineering, Institute of Technology, Banaras University,
Varanasi, India, 1972.**

PROFESSIONAL EXPERIENCE

WORK EXPERIENCE

Department Head, ISQS, Texas Tech University, Lubbock, Texas (August 22, 1994 – May 2003).

Managed a department with 18 full-time faculty and 4 part-time instructors. The job involved managing budget, scheduling classes, maintaining and enhancing curriculum, advising students, managing teaching, and faculty recruiting, etc. Also, as a member of the Deans Coordinating Council, I participated in the decision making at the college level. Organized and coordinated the MIS Industrial Advisory Board activities. Recruited companies for the board membership. Developed, with the help of faculty, a strategic plan for the department.

James and Elizabeth Sowell Professor of Telecom Technology, Texas Tech University, (January 1998 – August 2016);

Graduate Advisor (2007-2015).

1. Developed a graduate program in Telecom and Network Management. Served as a graduate advisor for the MSBA-Telecom and Network Management Program.
2. Revamped and redesigned a graduate program in MS-MIS with emphasis on Business Intelligence (BI). Served as a graduate advisor for the MS-MIS-BI program.
3. Applied for and Acquired the STEM designation to the MS-MIS program from the Texas Higher Education Coordinating Board.
4. Increased graduate enrollment through active and aggressive recruiting.

Professor, Texas Tech University, (September 1992 - Present).

Involved in streamlining our graduate and undergraduate MIS curriculum in addition to teaching and research.

Managed the Ph.D. Program in MIS for over ten years.

Designed and developed several courses such as Research Methodologies in MIS and Enterprise Application Development.

Consultant to Texas International Education Consortium (10/94-2/95).

Helped develop graduate and undergraduate MIS curriculum for the University of Nuevo Leon, Mexico.

Visiting Scientist, Carnegie Mellon University, Pittsburgh (August 1990- December 1990).

Conducted research in machine learning at the Robotics Institute. As part of this research, I prepared the following research documents:

1. An Intelligent Meeting Scheduler--A Straw man
2. Determination of Functions and Tasks in Planning a Workshop
3. A Message-Frame for Creating Digest for Mail and Phone Messages
4. A Documentation of Mail Messages and Phone Conversations in Scheduling a meeting.
5. A Comparison Matrix for PERSUADER--A Case-Based Reasoning system.
6. A preliminary analysis of matching cases in Prodigy. This work has been acknowledged in the paper, "Variable-Precision Case Retrieval in Analogical Problem Solving," submitted to the 1991 DARPA Workshop on Case-Based Reasoning, by Manuela Veloso and Jaime Carbonell.

Consultant for IBM Technical Education (March, 1990 - March, 1991).

Taught IDEF₀ Function modeling course to IBMers at various IBM sites. I have taught IDEF₀ Function modeling course at six IBM sites and at Hamilton Standard, Hartford, CT. I have also taught IDEF_{1x} modeling course. These courses discuss how to model and document an existing business process for the purpose of understanding and simplification of the business process. These courses used real IBM manufacturing processes for the modeling exercises.

Systems Development Consultant (1983 - present).

Extensive experience in designing and developing medical practice management software and accounting packages such as General Ledger and Payroll. I have designed and developed a Medical software package and several accounting packages. The medical package runs under Windows, and UNIX. The medical package is being used by several physicians in Texas and New Mexico.

Associate Professor, Texas Tech University, (September 1986 - August 1992).

Was involved in upgrading our graduate and undergraduate MIS curriculum.

Taught IDEF₀ and other modeling method for the last twelve years as part of an advanced systems analysis course where I serve as a “chief consultant” to students who work on real life projects and develop IDEF₀ models (up to Axxx level and more) of business processes. I have directed and evaluated over 120 real life IDEF₀ projects.

Wrote a three-page write-up on the body of knowledge required for PhD in MIS. This has been used as a guide by our PhD students as well as the faculty members for topics to be covered in our research seminar courses.

Developed the following new courses from scratch:

- ISQS 6338 Information and System Concepts in Organizations
- ISQS 7347 Structural and Process-oriented Issues in MIS Research.
- ISQS 7339 Advanced Information System Design

Assistant Professor, Texas Tech University, (January 1981-August 1986).

Was involved in upgrading our graduate MIS curriculum. Developed course-outlines and catalog descriptions for the following courses:

ISQS 7339 Advanced Information System Design
ISQS 6341 Data Communication and Network Management

Developed new courses in the following areas:

Programming,
Data Base Systems,
Systems Analysis,
Information Technology for Managers,
Advanced Business Programming Techniques,
Artificial Intelligence in Management Systems

Systems Design Consultant (September 1984-1987).

Consulted with TRIMARAND Associates, Kingwood, Texas, in designing program generator tools.

Systems Analysis Consultant (1982-1983).

As a project staff member at the Texas Center for Productivity and Quality of Work Life, I reviewed the EXXON Mechanical Information System design document and the EXXON Central Mechanical Building conceptual design document. The work involved evaluating requirement specification documents containing several pages of data flow diagrams and other written materials.

Systems Analyst, Computer Center, Georgia State University, (October 1978-December 1980).

Development of a software package which connects users from Univac 90/80 to Interdata Processor and allows easy compilation and execution of Interdata Fortran programs.

Systems Analyst, Computer Center, Georgia State University, (September 1976- September 1978).

Design and implementation of a text editor on Interdata 8/32 which acts as a front end processor for two Univac 90/80 systems. The total code is 62k bytes.

Graduate Research Assistant, (September 1976-January 1977).

Wrote an input/output driver to support GT44 Display Processor under RSX11-M system on PDP11/40.

Graduate Research Assistant, (February 1977-April 1978).

Was involved in implementing PASCAL-11 under RSX11-M system on PDP11/40. The original compiler was developed by the University of Illinois.

Co-designed and implemented a very flexible word processing system on L9000 minicomputer with interactive capabilities. This word processor also has the capability to extract information from a separate group of files and include it as part of the total information about, say, a customer.

Systems Analyst, Indian Institute of Management, Ahmedabad, India, (October 1974-June 1976).

Design and implementation of a multi-terminal time shared BASIC interpreter for TDC-312 computer to support 16 on-Line terminals. Total code is 35k words (12 bits) including overlays, etc.

TEACHING EXPERIENCE

Professor of IS, Texas Tech University, Lubbock, Texas (September 1992 - present).

Teaching undergraduate, graduate, and Ph.D. courses in Information Systems such as Systems Analysis & Design including techniques such as IDEF⁰, IDEF¹, DFD, ERD, UML; Object-oriented and various other modeling techniques; Data Base Management Systems; Client-Server Databases; Applied Artificial Intelligence; and Ph.D. Research Seminars on topics such as Intelligent Information Retrieval and Management and Organizational issues in MIS.

Associate Professor, Texas Tech University, Lubbock, Texas (September 1986 - August 1992).

Taught graduate and undergraduate courses in Information Systems such as Systems Analysis & Design including techniques such as IDEF0, IDEF1, DFD, and various other data modeling techniques; Data Base Management Systems; Programming Languages; Applied Artificial Intelligence; Mini/Micro Computers for business and PhD Research Seminars in Management Information Systems.

Assistant Professor, Texas Tech University, Lubbock, Texas, (January 1981 - August 1986).

Taught undergraduate and graduate courses in Information Systems.

Temporary Instructor, Georgia State University, (September 1979 - December 1980).

Taught undergraduate courses in Information Systems.

RESEARCH PUBLICATIONS

Journal Articles:

1. Yadav, Surya B (2021). A resilient hierarchical distributed model of a cyber physical system, Cyber-Physical Systems, 25 pages, DOI: [10.1080/23335777.2021.1964101](https://doi.org/10.1080/23335777.2021.1964101).
2. Chatterjee, Sankar and Surya B Yadav. "The origin of prebiotic information system in the peptide/RNA world: A simulation model of the evolution of translation and the genetic code," Life 2019, 9, 25, 73 pages; Basel, Switzerland.
3. Yadav, Surya B. and Tianxi Dong. "A Comprehensive Method to Assess Work System Security Risk," Communications of the Association for Information Systems journal, Vol. 34, Article 8, 2014, 31 pages.

4. Schniederjans, Dara and Surya B Yadav. "Successful ERP Implementation: An Integrative Model," Business Process Management Journal, Volume 19, Issue 2, 2013, pp 364 - 398.
5. Glancy, Fletcher and Surya B Yadav. "A Computational Model for Financial Reporting Fraud Detection," Decision Support Systems, Volume 50 (2011), pp595-601.
6. Glancy, Fletcher and Surya B Yadav. "Business Intelligence Conceptual Model," International Journal of Business Intelligence Research, Vol. 2 (2011), No. 2, pp. 48-66
7. Yadav, Surya B. "A Six-View Perspective Framework for System Security —Issues, Risks, and Requirements," International Journal of Information Security and Privacy, Jan-March 2010, 4(1) pp 60-90.
8. Yadav, Surya B. "A Conceptual Model for User-Centered Quality Information Retrieval on the World Wide Web," Journal of Intelligent Information Systems, Volume 35, Issue 1, 2010, pp 91-121.
9. Yadav, Surya B. "Automation of Webpage Quality Determination," International Journal of Information Quality, 2008, Vol. 2, No. 2, pp152-176.
10. Yadav, Surya B. "SEACON: An Integrated Approach to the Analysis and Design of Secure Enterprise Architecture-Based Computer Networks," International Journal of Information Security and Privacy, January-March 2008, Vol. 2, No. 1, pp1-25.
11. Yadav, Surya B. "A Hybrid Instruction Design of a Database Course: from Concept to Implementation," International Journal of Information and Operations Management Education, Volume 2 (2007), No. 2, pp140-151.
12. Shaw, Neal, Ahmad Mian, and Surya B. Yadav. "A Comprehensive Agent-Based Architecture for Intelligent Information Retrieval in a Distributed Heterogeneous Environment," Decision Support Systems, Vol. 32 (2002) pp401-415.
13. Shaw, Neal and Surya B. Yadav. "DEACON: An Integrated Approach to the Analysis and Design of Enterprise Architecture-Based Computer Networks," Communications of the Association for Information Systems, Vol. 5, June 2001, pp1-29.

14. Glezer, Chanan and Surya B. Yadav. "A Conceptual Model of an Intelligent Catalogue Search System (ICSS)," Journal of Organizational Computing and Electronic Commerce, 11(1), 2001, pp31-46.
15. Yadav, Surya B., Neal Shaw, Linda Web, and Canan Sutcu. "Comments on Factors that Impact Implementing a System Development Methodology," IEEE Transactions on Software Engineering, Vol. 27, No. 3, 2001, pp279-281.
16. Chuang, Ta-Tao and Surya B. Yadav. "A decision-driven approach to object-oriented analysis," The DATABASE for Advances in Information Systems, spring 2000, Vol. 32, no. 2.
17. Glezer, Chanan and Surya B. Yadav. "A Conceptual Model of an Intelligent Meeting-Scheduler." Journal of Organizational Computing and Electronic Commerce, Vol. 9, Number 4, 1999, page 233-251.
18. Chuang, Ta-Tao and Surya B. Yadav. "Development of an Adaptive Decision Support Systems," Decision Support Systems, Vol. 24, 1998, Page 73-87.
19. Baldwin, Dirk and Surya B. Yadav, "The Process of Research Investigations in Artificial Intelligence--An Unified View," IEEE Trans. on Systems, Man, and Cybernetics, Vol. 25, No. 5, pp. 852-861, May 1995.
20. Khazanchi, Deepak and Surya B Yadav, "A New Approach to Problem Definition," Journal of Information Systems Management, Vol. 12, No. 2, pp. 21-26, Spring 1995.
21. Bingi, Reddy P., Deepak Khazanchi, and Surya B. Yadav, "A Framework for the Comparative Analysis and Evaluation of Knowledge Representation Schemes," Journal of Information Processing and Management, Vol. 31, No. 2, pp. 233-247, 1995.
22. Rajkumar, T.M., B.R. Baliga, and Surya B. Yadav, "Systems to Support Reasoning by Analogy," Journal of Computer Information Systems, summer 1994, pp81-87.
23. Potts, Craig, Terri Giddens, and Surya B. Yadav, "The Development and Evaluation of an Improved Genetic Algorithm Based on Migration and Artificial Selection," IEEE Trans. on Systems, Man, and Cybernetics, January, 1994.

24. Dalal, Nikunj P. and Surya B. Yadav, "The Design of a Knowledge-Based Decision Support System to Support an Information Analyst in Determining Requirements," special issue on Expert Systems and Decision Support Systems of the Decision Sciences, Vol. 23, Number 6, 1992.
25. Yadav, Surya B. and Deepak Khazanchi, "Subjective Understanding in Strategic Decision Making: An Information Systems Perspective," Decision Support Systems Journal, vol.8, 1992, pp55-71.
26. Yadav, Surya B., "Control and Definition Modularization: An Improved Software Design Technique for Organizing Programs", IEEE Trans. on Software Engineering, Vol. 16, January 1990, pp. 92-99.
27. Yadav, Surya B. and Donald R Chand, "An Expert Modeling Support System For Modeling An Object System To Specify Its Information Requirements", Decision Support System Journal, 5 (1989), pp. 29-45.
28. Yadav, Surya B., Ralph Bravoco, Akemi Chatfield, and T.M. Rajkumar) of the paper, "Comparison of Systems Analysis Techniques for Information Requirement Determination", Communications of the ACM, Vol. 31, No. 9, (September 1988) pp. 1090-1097.
29. Yadav, Surya B. and Apparao Korukonda) of the paper, "Management of Type III Error in Problem Identification," Interfaces, 15:4, July-August 1985, pp. 55-61.
30. Yadav, Surya B., "Classifying an Organization to Identify its Information Requirements: A Comprehensive Framework," Journal of Management Information Systems, summer 1985, Vol. II, No. 1, pp. 36-57.
31. Bravoco, Ralph R. and Surya B. Yadav, "A Methodology to Model the Dynamic Structure of an Organization," Information Systems, Vol. 10, No. 3, 1985, pp. 299-317.
32. Bravoco, Ralph R. and Surya B. Yadav, "Requirement Definition Architecture-An Overview," Computers in Industry, Vol. 6, No. 4, 1985, pp. 237-251.

33. Bravoco, Ralph R. and Surya B. Yadav, "A Methodology to Model the Functional Structure of an Organization," Computers In Industry, Vol. 6, No. 5, 1985, pp. 345-362.
34. Bravoco, Ralph R. and Surya B. Yadav, "A Methodology to Model the Information Structure of an Organization," The Journal of Systems and Software, Vol. 5, No. 2, February 1985, pp. 59-71.
35. Yadav, Surya B., "Determining an Organization's Information Requirements: A State of the Art Survey," DATA BASE, Vol. 14, No. 3, spring 1983, pp. 3-20.
36. Chand, Donald R. and Surya B. Yadav, "Logical Design of Software," Communications of the ACM, Vol. 23, 10, (October 1980): pp. 546-555.

Proceedings Articles (Refereed):

1. Dong, T., Yadav, Surya. 2014. "A Comprehensive Framework for Comparing System Security Risk Assessment Methods," Twentieth Americas Conference on Information Systems. Savannah, GA, August.
2. Glancy, Fletcher H. and Yadav, Surya B. Yadav, "Is It Spam or Ham? Testing Asynchronous CMC Deception Detection Theory" (2010). ICIS 2010 Proceedings. Paper 29. 11 pages.
3. Yadav, Surya B and Jeremy Bellah. "An Improved Method for Automatically Determining Webpage Cohesiveness for Quality Information Retrieval from World Wide Web", Proceedings of the 11th International Conference on Information Quality, Cambridge, MA, November 10-12, 2006.
4. Xu, Bo; Yadav, Surya; and Li, Dahui, "A Conceptual Model of a Workflow Management System Based on Web Services" (2004). AMCIS 2004 Proceedings. 512. <http://aisel.aisnet.org/amcis2004/512>
5. Xu, Bo and Surya B Yadav. "Effect of On-line Service Reputation in Electronic Markets: A Trust-Based Empirical Study", Proceedings of the Americas Conference on Information Systems, Tampa, Florida, August 2003.
6. Li, Dahui, and Surya B. Yadav. "Towards a Framework Investigating the Sticky

Behavior of Internet Users". Proceedings of the 11th Workshop on Information Technologies and Systems (WITS'01), New Orleans, LA.

7. Li, Dahui, Surya B. Yadav, and Zhangxi Lin. "Exploring the Role of Privacy Programs on Initial Online Trust Formation." Proceedings of the Americas Conference on Information Systems, Boston, MA, August 2001.
8. Shaw, Neal and Surya B. Yadav. "Factors Affecting the Planning and Implementation of Emerging Telecommunications Technologies," Proceedings of 1998 Americas Conference on Information Systems, August 14-16, 1998, Baltimore, Maryland.
9. Shaw, Neal and Surya B. Yadav. "Characteristics of System Requirements for Electronic Commerce," Proceedings of 1997 Americas Conference on Information Systems, August 15-17, 1997, Indianapolis, Indiana.
10. Chuang, Ta-Tao and Surya B. Yadav. "An Agent-based Architecture for an Adaptive Decision Support Systems," Proceedings of 1997 Americas Conference on Information Systems, August 15-17, Indianapolis, Indiana.
11. Surya B. Yadav and Neal Shaw. "A Comprehensive Framework for Studying and Understanding Electronic Commerce," the IRMA International Conference, May 15-18, 1997, Vancouver, Canada.
12. Nakatani, Kazuo, and Surya B. Yadav. "An Extended Object-Oriented Modeling Method for Business Process Reengineering," Proceedings of the Americas Conference on Information Systems, August 16-18, 1996, Phoenix, Arizona, pp. 167-169.
13. Chuang, Ta-Tao, and Surya B. Yadav. "A Conceptual Model of an Adaptive Decision Support System," Proceedings of the Americas Conference on Information Systems, August 16-18, 1996, Phoenix, Arizona, pp. 464-466.
14. Delgadillo, Francisco, and Surya B. Yadav. "An Intelligent Tutoring System Architecture for K-12 Education," The Seventh International Conference on Artificial Intelligence & Expert Systems Applications, November 9-10, San Francisco, CA, 1995.

15. Glezer, Chanan and Surya B. Yadav. "An Intelligent Meeting Scheduler," The Seventh International Conference on Artificial Intelligence & Expert Systems Applications, November 9-10, San Francisco, CA, 1995.
16. Gwinn, William H. and Surya B. Yadav. "An Adaptive Expert Analyst Modeling Support System: Aiding the Analyst in Determining Information System Requirements," Proceedings of the First Americas Conference on Information Systems, August 25-27, 1995, Pittsburgh, PA, pp366-368.
17. Chuang, Ta-Tao and Surya B. Yadav. "Object-Oriented Analysis: A Decision Driven Approach," Proceedings of the First Americas Conference on Information Systems, August 25-27, 1995, Pittsburgh, PA, pp402-404.
18. Kinikoglu, Pinar and Surya B. Yadav. "An Agent Based Architecture For Component-Based Software Development," Proceedings of the First Americas Conference on Information Systems, August 25-27, 1995, Pittsburgh, PA, pp405-407.
19. Kinikoglu, Yakup T. and Surya B. Yadav. "Determination of the Features of Instructional Games," Proceedings of the First Americas Conference on Information Systems, August 25-27, 1995, Pittsburgh, PA, pp442-444.
20. Yadav, Surya B., Chen Xueguang, Lu ke, and Fei Qi, "An Intelligent Materials Allocator and Distributor," Proceedings of the Tenth Conference on Artificial Intelligence for Applications," March 1-4, 1994, San Antonio, Texas.
21. Yadav, Surya B. and Mukesh Rohatgi, "Adaptive Systems for Domain Independent Learning of Ill-defined Categories," First International Round-Table on Abstract Intelligent Agent, ENEA, Rome, January 25-27, 1993, pp.
22. Rajkumar, T.M., B.R. Baliga, and Surya B. Yadav "Incorporating Cognitive Tools in DSS", Proceedings of the 11th International Conference of DSS-91 Transactions, pp239-246, Manhattan Beach, CA, June 3-5, 1991.
23. Yadav, Surya B., "A Human Learning Based Approach to Structuring and Acquiring Knowledge in Adaptive Knowledge-Based Systems." Second International Symposium on Artificial Intelligence, Monterrey, Mexico, October 23-27, 1989.

24. Rajkumar, T.M. and Surya B. Yadav, "Requirements for an Extensible GDSS", Proceedings of the Twenty-First Int'l. Conference on Systems Sciences, Honolulu, Hawaii, January 1988.

25. Yadav, Surya B., "Desirable Features of a CASE Tool," First Intl. Workshop on Computer Aided Software Engineering, Vol. 1, May 1987, pp.112-113.

26. Coauthor (with Ralph Bravoco, Akemi Chatfield, and T.M. Rajkumar) of the paper, "System Engineering Methods and Tools to Improve Manufacturing Productivity," Proceedings of the American Institute for Decision Sciences National Conference, November 1985.

27. Coauthor (with Donald R. Chand) of the paper, "A Computer Aided Tool for Modeling the Object System," Proceedings of the Fourteenth Hawaii International Conference on System Sciences, Honolulu, Hawaii, January, 1981: pp. 137-139.

28. Coauthor (with Donald R. Chand) of the paper, "On the Application of Data Abstraction Facilities," National ACM Conference, December, 1978: pp. 639-645

Research Work in Progress

- "Security and Resilience Issues in Cyber Physical Systems."
- "The origin of Information systems in the RNA/Polypeptide World."
- "A Theory of Deception Detection in Asynchronous Communications."

BOOKS and BOOK CHAPTERS

- Book Chapter

Harold Webb and Surya B. Yadav. "Quality Factors for Decision Making Support Systems Assessment—An Application of Research Framework," Chapter XVII, *Decision Making Support Systems—Achievements and Challenges for the New Decade*, Edited by Manuel Mora, Guisseppi Forgionne, and Jatinder N.D. Gupta, Idea Group Publishing, Hershey, 2003.

GRANTS and SPONSORED RESEARCH

Pending

Co-PI, "Conference on US-India Defense Ties," Grant#: GRANT12798141, Grants.Gov, Submitted on February 20, 2019, \$50,000.

Declined

Rao, Vittal (Principal), Delucia, Patricia (Co-Principal), Nutter, Brian, Ren, Beibei, Yadav, Surya, "SFS: Living Laboratory for Cyber security of Building Energy Management Systems.," Sponsored by National Science Foundation, \$499,614.00. (August 1, 2017 - July 31, 2020).

Declined

Avetisyan, Misak, Yadav, Surya, Rao, Vittal, Nutter, Brian, "Estimation of Resilience and Economic Losses from Terrorist Attacks and Natural Disasters on the Electric Energy System," Sponsored by Texas Tech University, Texas Tech University, \$148,175.00. (May 1, 2017 - October 31, 2018).

Declined

Avetisyan, Misak (Principal), Yadav, Surya (Co-Principal), Becker, Klaus (Co-Principal), Rao, Vittal (Co-Principal), "CRISP Type 1: A Framework for Assessing the Resilience and Total Economic Impacts of Man-Made and Natural Disasters on Networked Critical Interdependent Infrastructure Systems," Sponsored by National Science Foundation, Federal, \$499,221.00. (September 1, 2015 - August 31, 2018).

Declined

Avetisyan, Misak, Yadav, Surya, Nutter, Brian, Iyer, Ram, "A Framework for Assessing Resilience and Total Economic Losses from Man-made and Natural Disasters in the Electric Energy System," Sponsored by Texas Tech University, Texas Tech University, \$141,018.00. (May 1, 2016 - October 1, 2017).

Awarded

Yadav, Surya (Principal), Delgadillo, Francisco (Co-Principal), Giddens, Terri (Co-Principal), Hudson, Michael (Co-Principal), "OIA Design of the SIECA Economic Intelligence Observatory," Sponsored by USDA - Foreign Agricultural Service, \$20,169.00. (August 19, 2015 - March 31, 2016). Award ID: 10009485, ORS Proposal #: 109052

Awarded

Yadav, Surya (Principal), Delgadillo, Francisco (Co-Principal), Giddens, Terri (Co-Principal), Hudson, Michael (Co-Principal), "OIA Design of the SIECA Economic

Intelligence Observatory," Sponsored by USDA - Foreign Agricultural Service, \$79,831.00. (June 1, 2015 - October 30, 2015). Award ID: 10009326, ORS Proposal #: 109052.

Awarded

Yadav, Surya (Principal), Misra, Sukant (Co-Principal), Giddens, Terri (Co-Principal), Rahman, Shaikh M (Co-Principal), "Bangladesh Agricultural Market Information System (BAMIS) Implementation and Transition to DAM Server," Sponsored by USDA - Foreign Agricultural Service, \$53,187.00. (November 1, 2014 - December 31, 2014). Award ID: 531949:104264118272, ORS Proposal #: 108572.

Declined

Mengel, Susan (Co-Principal), Rao, Vittal (Co-Principal), Hui, Qing (Co-Principal), Ren, Beibei (Co-Principal), Avetisyan, Misak (Co-Principal), Iyer, Ram (Principal), Nutter, Brian (Co-Principal), Yadav, Surya (Co-Principal), "Scholarship for Service: CyberDefense of Networked Critical Infrastructure," Sponsored by National Science Foundation, Federal, \$2,803,758.00.

Awarded

Yadav, Surya (Principal), Misra, Sukant (Co-Principal), Giddens, Terri (Co-Principal), Rahman, Shaikh M (Co-Principal), "OIA: Design and Implementation of an Effective Agricultural Marketing Information System for Bangladesh," Sponsored by USDA - Foreign Agricultural Service, \$191,818.00. (June 1, 2014 - September 30, 2014). Award ID: 531949:104264122368, ORS Proposal #: 108046.

Awarded

Yadav, Surya (Principal), Misra, Sukant (Co-Principal), Giddens, Terri (Co-Principal), Rahman, Shaikh M (Co-Principal), "OIA: Design and Implementation of an Effective Agricultural Marketing Information System for Bangladesh," Sponsored by USDA - Foreign Agricultural Service, \$31,636.00. (May 29, 2014 - June 30, 2014). Award ID: 531949:104264122368, ORS Proposal #: 108046.

Declined

Rao, Vittal (Principal), Hui, Qing (Co-Principal), Ren, Beibei (Principal), Iyer, Ram (Co-Principal), Nutter, Brian (Co-Principal), Yadav, Surya (Co-Principal), "Cybersecurity and Resiliency," Sponsored by National Science Foundation, Federal, \$299,998.00.

Declined

Berg, Jordan (Principal), Rao, Vittal (Principal), Watson, Marshall (Principal), Hui, Qing (Principal), Ren, Beibei (Principal), Avetisyan, Misak (Principal), Iyer, Ram (Co-Principal), Wang, Xiaochang (Co-Principal), Wiesner, Theodore (Principal), Chen, Chau-Chyun (Co-Principal), James, Darryl (Principal), Yadav, Surya (Principal), Nutter, Brian (Principal), "MRI: Development of a Cyber-Physical Hardware-in-the-Loop Testbed for Critical Pipeline Infrastructure," Sponsored by National Science Foundation, Federal, \$420,000.00.

JOURNAL AND/OR FOUNDATION REFEREE

1. National Science Foundation.
2. Communications of the ACM.
3. IEEE Trans. on Software Engineering.
4. Journal of Management Information System.
5. MIS Quarterly.
6. Decision Sciences.
7. The Database for Advancement in Information Systems.
8. Information and management.
9. IEEE Software.
10. Decision Support Systems Journal.
11. IEEE Computer.

ACADEMIC ADMINISTRATIVE EXPERIENCE

Member of the Internal Program Review Committee for the Department of Computer Science for the Graduate Program Reviews 2010-2011.

Area Coordinator (Department Head) of the ISQS Department, College of BA, Texas Tech University (August 1994--May 2003).

Member of Dean's Coordinating Council (1994- 2003)

Graduate Advisor (September 1982-August 1986, September 2007-2015).

Ph.D. Program Advisor (May 1986-1998, June 2001- August 2002).

Duties included:

- Advising Ph.D. students in their program of study,
- Coordinating admission of prospective Ph.D. students,

Coordinating Ph.D. comprehensive and qualifying exams.

Member of the Dean's Merit Advisory Committee (1986-87, 1988-89, 1992-93, 1993-94).

Member of the Dean's Research Advisory Board (1991-1992).

Member of the University Grievance Panel (1992-1993).

Member of COBA Visioning Committee (1995-1997).

Member of University IT Advisory Committee (2001-2003).

Member of TTU Ethics Center Advisory Committee, 2014-Present. One to two meetings per year.

Member of the College Grades Appeal Committee, (2021-Present)

Member of the ISQS Area Scholarship Committee, (2020—Present). Several meetings to select and finalize the student list for awarding scholarships.

Member of the ISQS Area Undergraduate Program Committee, (2021—Present). Duties included:

- Redesigning the undergraduate curriculum for the IT Majors.
- Revamping, and redesigning some of the courses.
- Writing course descriptions for several course.

DISSERTATION AND THESIS COMMITTEE

Doctoral Dissertations Chaired

1. Baldwin, Dirk,
"Principles of Design for a Multiple Viewpoint Problem Formulation Support System", dissertation completed, May, 1989.
2. Rajkumar, T.M.,
"An Empirical Investigation into the Usage of Expert Systems," dissertation completed, July 1989.
3. Chatfield, Akemi,
"A DSS Development Methodology for Successful DSS Implementation: A User Learning Approach & A Knowledge-based User learning Support System," dissertation completed, May, 1990.
4. Fowler, David,
"An Empirical Study of a Methodology for Designing Intelligent Tutoring Systems", dissertation completed, August 1990.

5. Khazanchi, Deepak,
"Subjective Understanding of Ill-structured Problems: An Information Systems Perspective", dissertation completed, July 1991.
6. Rohatgi, Mukesh,
"A Human Learning Approach for Designing Adaptive Knowledge-Based Systems," Dissertation completed, June 1994.
7. Giddens, Terri,
"Determination of Invariant parameters and Operators of the Traditional Genetic Algorithm Using an Adaptive Genetic Algorithm Generator," Dissertation completed August 1994.
8. Parker, Kevin,
"A Holistic Profile for Information Filtering Systems," Dissertation Completed, May, 1995.
9. Glezer, Chanan,
"A Conceptual Model and an Implementation of an Intelligent Meeting-Scheduler, August," 1996.
10. Burg, William,
"An object-oriented Architecture for Enterprise Modeling," August, 1997 (Co-chair with David Hale).
11. Lee, Seung,
"A Methodology for Design of the Intranet as a Hyper-document Application," August 1998.
12. Nakatani, Kazuo,
"An Extended Object-Oriented Modeling Method for Business Process Reengineering," March 1999.
13. Gwin, William,
"A Conceptual Model and Prototype for A Case-Based Adaptive Analyst Support System," May 1999.

14. Shaw, Neal,
"The Transparent Evolution of Information Technology Infrastructure Components," June 1999.
15. William, Harold,
"The Moderating Effects of Information Technology On Knowledge Delivery: An Examination of Interaction Processes and Learning Outcomes," August 1999.
16. Glancy, Fletcher,
"Deception Detection in Asynchronous Computer-mediated Communication," June 2010.

Doctoral Dissertations Committee Member

- * Larry Sanders, Completion date 1/10/82
- * Sadik Cokelez, Completion date 12/10/84
- * Ranjan Kini, Completion Date 10/1/85
- * Shane Sharpe, Completion Date December 1992.
- * Doug Havelka, Completion Date September 1994.
- * Tom Ottaway, Completion Date July, 1995.

M. Tech. Thesis Committee Chaired

- Srinath,
*"An Automated Tool for Logical Database Design", M. Tech. Thesis, TTU Computer Science, 1983.

AWARDS

Member of Upsilon Pi Epsilon.

Recipient of Government of India National Scholarship for six years.

Faculty Designee for Tom Abraham Graduate Fellowship, 1986.

HONOR SOCIETIES

Member of PHI BETA DELTA.

PAST MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Association for Computing Machinery (ACM).

Institute of Electrical and Electronic Engineers (IEEE).

Association for Information Systems (AIS).

ACTIVITIES IN PROFESSIONAL ORGANIZATIONS

Editorial Positions:

1. Associate Editor. Journal of Complex Engineering Systems. August 2021 to August 2025.
2. Interdisciplinary Journal of Information, Knowledge, and Management—Advisory Board Member (April 2005—April 2021)

Program Committee Memberships:

1. Program Committee member for the 24th International Conference on Enterprise Information Systems, April 25-27, 2022. Reviewed two research articles (10 double column pages each).
2. Member of the Organizing Committee for the Massachusetts Institute of Technology Information Quality (MIT IQ) Industry Symposium, held at MIT Cambridge, July 19, 2007.

3. Program Committee member for the Third International Conference on Information Systems Technology and Management, 2009.