

AMIT V. DEOKAR

College of Business & Information Systems
Dakota State University
820 N. Washington Ave., East Hall 7
Madison, SD 57042

Email: amit.deokar@dsu.edu
Voice: 605-256-5166 (O), 605-929-4542 (C)
Fax: 605-256-5060
<http://www.homepages.dsu.edu/adeokar>

EDUCATION

Doctor of Philosophy - August 2006

University of Arizona - Tucson, Arizona, USA

Major/Minor: Management Information Systems (MIS)/Mathematics

Dissertation: "A Computational Framework for Designing Interleaved Workflow and Groupware Tasks in Organizational Processes" (Dissertation Chair: Dr. Jay F. Nunamaker, Jr.)

Master of Science - May 2002

University of Arizona - Tucson, Arizona, USA

Major: Industrial Engineering

Bachelor of Engineering - May 2000

V. J. Technological Institute, University of Mumbai – Mumbai, India

Major: Mechanical Engineering

AREAS OF INTEREST

Business process management

IT service design and management

Collaboration process management

Semantic Web technologies and applications

Distributed decision support systems

Healthcare informatics

Knowledge management applications

IS research methodologies

SPECIAL AWARDS AND HONORS

Recipient of Graduate Research Scholarship for continued excellence in the Ph.D. program based on research and teaching contributions, 2005 - 2006.

Selected for participation at the AMCIS Doctoral Consortium, 2005.

Nominated as Ph.D. Representative, MIS Department, University of Arizona, 2004 - 2006.

Recipient of Graduate Research Scholarship for top performance in Ph.D. Core Exam, 2003 - 2004.

Ranked 11th in Higher Secondary Maharashtra State Board Exam (among 500,000 students), India, 1996.

RESEARCH AND PROFESSIONAL EXPERIENCE

Assistant Professor of Information Systems, August 2006 - Present

College of Business & Information Systems
Dakota State University, Madison, South Dakota

Involved in the design, curriculum development, assessment plan of the new D.Sc.(IS) program at DSU; teaching and advising doctoral students in the field of information systems; actively pursuing research in the above mentioned fields of interest.

Graduate Research/Teaching Associate, August 2003 - June 2006

The Center for the Management of Information
University of Arizona (Eller College of Management), Tucson, Arizona

Researcher in projects: human-agent collaboration tools, automated deception and intent detection; participated in extensive grant writing activities for securing research funding.

Research Consultant, Summer 2005

Flandrau Science Center, University of Arizona, Tucson, Arizona

Evaluated state-of-the-art Content Management Systems (CMS) and Knowledge Management Systems (KMS) for the proposed Science Center management information system.

Graduate Intern, Summer 2004

Sanofi-Aventis Pharmaceuticals, Inc., Tucson, Arizona

Developed an intranet portal to support content management, and document business processes.

Process Excellence Intern, Spring 2002

Intuit, Inc., Tucson, Arizona

Involved in a six sigma black belt project to reduce customer problem resolution time and thus improve technical support center service processes.

Graduate Research Associate, August 2001 - July 2003

Steward Observatory, University of Arizona, Tucson, Arizona

Performed Finite Element Analysis (FEA) analysis of the Large Binocular Telescope Interferometer (LBTI) instrument (NASA funded project).

Graduate Research Assistant, August 2000 - July 2001

Systems and Industrial Engineering Department, University of Arizona, Tucson, Arizona

Worked on stochastic programming problems for airline yield management.

Engineer in Training, August 1999 - May 2000

Robotics Division, Bhabha Atomic Research Center (BARC), Trombay, Mumbai, India

Performed kinematic analysis of master-slave servomanipulator as part of a research project.

PUBLICATIONS

Articles in Peer-Reviewed Journals

El-Gayar, O. F., Deokar, A. V., and Wills, M. "Evaluating task-technology fit and user performance for an electronic health record system," International Journal of Biomedical Engineering and Technology (accepted, forthcoming).

- Wills, M., Sarnikar, S., El-Gayar, O. F. and Deokar, A. V. "Clinical knowledge management systems: Literature review and research issues for information systems," *Communications of the Association for Information Systems* (accepted, forthcoming). (all authors contributed equally)
- Burgoon, J. K., Twitchell, D. P., Jensen, M. L., Meservy, T. O., Adkins, M., Kruse, J., Deokar, A. V., Tsechpenakis, G., Lu, S., Metaxas, D. N., Nunamaker Jr., J. F., and Younger, R. E. "Detecting concealment of intent in transportation screening: A proof of concept," *IEEE Transactions on Intelligent Transportation Systems*, 10(1), pp. 103-112, March 2009.
- Deokar, A. V., Kolfschoten, G. L., and de Vreede, G. J. "Prescriptive workflow design for collaboration-intensive processes using the collaboration engineering approach," *Global Journal of Flexible Systems Management*, special issue on - Business Process Management: Impact on Organizational Flexibility, 9 (4), October-December 2008.
- Cao, J., Crews, J. M., Lin, M., Deokar, A. V., Nunamaker Jr., J. F., and Burgoon, J. K. "Interactions between system evaluation And theory testing: A demonstration of the power of a multifaceted approach to systems research," *Journal of Management Information Systems*, 22(4), pp. 207 – 235, Spring 2006.

Book Chapters

- Deokar, A. V., and Taskin, N. "On flexibility in business process management systems," in Shankararaman, V., Zhao, J. L., and Lee, J. K. (Eds.), *Business Process Management: Concepts, Technologies and Applications*, (volume: *Advances in Management Information Systems*), M. E. Sharpe, Inc., (accepted, forthcoming).
- El-Gayar, O. F., and Deokar, A. V. "An ontology-based model management architecture for service innovation," in Dolk, D., and Granat, J. (Eds.), *Modelling and Decision Support for Network-based Services*, IFIP Working Group 7.6, *Lecture Notes in Business Information Processing*, Springer, (accepted, forthcoming).
- Helquist, J. H., Kruse, J., Meservy, T. O., Deokar, A. V., and Nunamaker Jr., J. F. "Facilitating large group collaboration," in Nunamaker Jr., J. F., Romano, N. C., and Briggs, R. O. (Eds.), *Collaboration Science, Technologies, Processes and Applications*, (volume: *Advances in Management Information Systems*), M. E. Sharpe, Inc. (accepted, forthcoming)
- Deokar, A. V., and El-Gayar, O. F. "Business process management systems for supporting individual and group decision making in organizational processes," in Adam, F., and Humphreys, P. (Eds.), *Encyclopedia of Decision Making and Decision Support Technologies*, Information Science Reference, 2008, pp. 61-68.
- El-Gayar, O. F., and Deokar, A. V. "Distributed model management: Current status and future directions," in Adam, F., and Humphreys, P. (Eds.), *Encyclopedia of Decision Making and Decision Support Technologies*, Information Science Reference, 2008, pp. 272-277.
- El-Gayar, O. F., Deokar, A. V., and Wills, M. "Current issues and future trends of Clinical Decision Support Systems (CDSS)," in Wickramasinghe, N., and Geisler, E. (Eds.), *Encyclopedia of Healthcare Information Systems* (vol. 1), Information Science Reference, 2008, pp. 352-358.
- Nunamaker Jr., J. F., and Deokar, A. V. "GDSS parameters and benefits," in Burstein, F., and Holsapple, C. W. (Eds.), *Handbook on Decision Support Systems* (vol. 1): *Basic Themes*, Springer, 2008, pp. 391-414.

Articles in Peer-Reviewed Conference Proceedings

- Deokar, A. V., Meservy, T. O., Helquist, J. H., and Kruse, J. "Understanding collaboration success in context of cognitive and social presence," In Proceedings of the 43rd Hawaii International Conference on System Sciences (HICSS-43 '10), Kauai, HI, 2010.
- Deokar, A. V., El-Gayar, O. F., and Aljafari, R. "Developing a semantic web-based distributed model management system: Experiences and lessons learned," In Proceedings of the 43rd Hawaii International Conference on System Sciences (HICSS-43 '10), Kauai, HI, 2010.
- Sarnikar, S., and Deokar, A. V. "Knowledge management systems for knowledge-intensive processes: Design approach and a case study," In Proceedings of the 43rd Hawaii International Conference on System Sciences (HICSS-43 '10), Kauai, HI, 2010.
- Sarnikar, S., and Deokar, A. V. "A design theory for developing knowledge management systems for knowledge-intensive processes," In Proceedings of the International Conference on Information Systems (ICIS '09), Phoenix, AZ, 2009.
- Wills, M., El-Gayar, O. F., and Deokar, A. V. "Evaluating the technology acceptance model, task-technology fit and user performance for an electronic health record system," In Proceedings of the 40th Annual Meeting of the Decision Sciences Institute (DSI '09), New Orleans, LA, Nov. 14-17, 2009.
- Meservy, T. O., Helquist, J. H., Deokar, A. V., and Kruse, J. "Enhancing e-learning using artifact-based collaboration," In Proceedings of the 15th Americas Conference on Information Systems (AMCIS '09), San Francisco, CA, 2009.
- Wills, M., El-Gayar, O. F., and Deokar, A. V. "Evaluating task-technology fit and user performance for an electronic health record system," In Proceedings of the 15th Americas Conference on Information Systems (AMCIS '09), San Francisco, CA, 2009.
- Deokar, A. V., and El-Gayar, O. F. "Enabling distributed model management using semantic web technologies," In Proceedings of the 42nd Hawaii International Conference on System Sciences (HICSS-42 '09), Waikoloa, Big Island, HI, 2009.
- El-Gayar, O. F., Deokar, A. V., Taskin, N., and Aljafari, R. "An ontology-based approach for representing decision models: Prospects and limitations," In Proceedings of the 39th Annual Meeting of the Decision Sciences Institute (DSI '08), Baltimore, MD, 2008.
- Deokar, A. V., El-Gayar, O. F., Taskin, N., and Aljafari, R. "An ontology-based approach for model representation, sharing and reuse," In Proceedings of the 14th Americas Conference on Information Systems (AMCIS '08), Toronto, Canada, 2008.
- Sen, S., and Deokar, A. V. "Information buried in B2B contracts: Towards identifying interdependencies in IT service processes," In Proceedings of the 14th Americas Conference on Information Systems (AMCIS '08), Toronto, Canada, 2008.
- Dittman, D., and Deokar, A. V. "Collaboration process patterns and integrated assessment in e-learning environments," In Proceedings of the 3rd Midwest Association for Information Systems Conference (MWAIS '08), Eau Claire, WI, May 23-24, 2008.
- Weist, P., and Deokar, A. V. "A knowledge-based approach for business process risk management," In Proceedings of the 3rd Midwest Association for Information Systems Conference (MWAIS '08), Eau Claire, WI, May 23-24, 2008.

- Deokar, A. V., and El-Gayar, O. F. "A semantic web services-based architecture for model management systems," In Proceedings of the 41st Hawaii International Conference on System Sciences (HICSS-41 '08), Waikoloa, Big Island, HI, 2008.
- Dean D., Deokar, A. V., and Ter Bush, R. "Making the collaboration engineering investment decision," In Proceedings of the 39th Hawaii International Conference on System Sciences (HICSS-39 '06), Kauai, HI, 2006.
- Deokar, A. V., and Madhusudan, T. "Developing group decision support systems for deception detection," In Proceedings of the 38th Hawaii International Conference on System Sciences (HICSS-38 '05), Big Island, HI, 2005.
- Tsechpenakis, G., Metaxas, D. N., Adkins, M., Kruse, J., Jensen, M. L., Meservy, T. O., Twitchell, D. P., Deokar, A. V., and Nunamaker Jr., J. F. "HMM-based deception detection from visual cues," In Proceedings of the IEEE International Conference on Multimedia and Expo (ICME '05), Amsterdam, Netherlands 2005.
- Burgoon, J. K., Adkins, M., Kruse, J., Jensen, M. L., Meservy, T. O., Twitchell, D. P., Deokar, A. V., Nunamaker Jr., J. F., Lu, S., Tsechpenakis, G., Metaxas, D. N., and Younger, R. E. "An approach for intent identification by building on deception detection," In Proceedings of the 38th Hawaii International Conference on System Sciences (HICSS-38 '05), Big Island, HI, 2005.
- Deokar, A. V., Madhusudan, T., Briggs, R. O., and Nunamaker Jr., J. F. "A structured approach to designing interleaved workflow and groupware tasks," In Proceedings of Americas Conference of Information Systems (AMCIS '04), New York, 2004.
- Cao, J., Lin, M., Crews, J., Deokar, A. V., and Burgoon, J. K. "The interaction of research methods for system evaluation and theory testing: A new vision of the benefits of multi-methodological IS research," In Proceedings of the International Conference on Information Systems (ICIS '04), Washington, D.C., 2004.
- Cao, J., Lin, M., Deokar, A. V., Burgoon, J. K., Crews, J., and Adkins, M. "Computer-based training for deception detection: What users want?," In Proceedings of the Second NSF/NIJ Symposium on Intelligence and Security Informatics (ISI '04), Tucson, 2004.
- Burgoon, J. K., Adkins, M., Kruse, J., Jensen, M. L., Deokar, A. V., Twitchell, D. P., Lu, S., Metaxas, D. N., Nunamaker Jr., J. F., and Younger, R.E. "Moving toward intent detection: A tool-based approach," In Proceedings of the 7th International IEEE Intelligent Transportation Systems Conference (ITSC '04), Washington D.C., 2004.

Invited Scholarly Articles and Presentations

- Deokar, A. V., and El-Gayar, O. F. "A distributed model management system architecture based on semantic web services," presented at the South Dakota Experimental Program to Stimulate Competitive Research State Conference, Sioux Falls, SD, September 11, 2008.
- El-Gayar, O. F., Deokar, A. V., Taskin, N., and Aljafari, R. "An ontology-based approach for model representation, sharing and reuse," presented at the South Dakota Experimental Program to Stimulate Competitive Research State Conference, Sioux Falls, SD, September 11, 2008.
- Deokar, A. V., Kolfshoten, G. L., and de Vreede, G. J. "Prescriptive workflow design for collaboration-intensive processes using the collaboration engineering approach," In Proceedings of the Eighth Global Conference on Flexible Systems Management (GLOGIFT '08), Hoboken, NJ, June 14-16, 2008.

- zur Muehlen, M., and Deokar, A. V. "Business process automation and management: Editorial notes," In Proceedings of the Americas Conference on Information Systems (AMCIS '07), Keystone, CO, August 9-12, 2007.
- El-Gayar, O. F., and Deokar, A. V., "A service-oriented architecture for distributed decision support systems in a collaborative business environment," In Proceedings of the 9th International Conference on Decision Support Systems (ICDSS '07), Kolkata, India, January 2-4, 2007.
- Deokar, A. V. and Deokar, A. V. "A declarative approach to designing scientific workflow processes," In Proceedings of the 4th AIMS International Conference on Management (AIMS '06), Indore, India, December 28-31, 2006.
- Weist, P., Deokar, A. V., and El-Gayar, O. F. "Evaluation of readiness model for web services adoption: A case study approach," In Proceedings of the Pre-ICIS SIG-DSS Research Workshop (ICIS '06), Milwaukee, WI, December 10-13, 2006.
- Deokar, A. V. "Bringing flexibility and adaptability to business process management systems," presented at the South Dakota Experimental Program to Stimulate Competitive Research (SD EPSCoR) State Conference, Rapid City, SD, September 25-26, 2006.
- Helquist, J. H., Jensen, M. L., Meservy, T. O., Deokar, A. V., Diller, C. B. R., Burgoon, J. K., Nunamaker Jr., J. F., Sycara, K., and Lewis, M. "A framework for studying human-agent teamwork," presented at the 39th Hawaii International Conference on System Sciences (HICSS - 39 '06), Kauai, HI, January 4-7, 2006.
- Deokar, A. V. "A computational framework for designing interleaved workflow and groupware tasks in organizational processes," presented at the Doctoral Consortium at Americas Conference of Information Systems (AMCIS '05), Omaha, NE, August 11-15, 2005.
- Burgoon, J. K., Kruse, J., Jensen, M. L., Meservy, T. O., Twitchell, D. P., Deokar, A. V., and Younger, R.E. "Validating an automated system for identifying suspicious behavior from videotaped gestures and movements," presented at the Second Conference of the International Society for Gesture Studies (ISGS '05), Interacting Bodies, Lyon, France, June 15-18, 2005.
- Burgoon, J. K., Adkins, M., Kruse, J., Jensen, M. L., Deokar, A. V., Twitchell, D. P., Nunamaker Jr., J. F., Lu, S., Metaxas, D. N., and Younger, R. E. "The decision for detecting intent," In Proceedings of the 2004 Global Business and Finance Research Conference (GBFRC '04), London, 2004.

RESEARCH FUNDING

- "Towards mining B2B contracts for identifying interdependencies in IT service processes," Faculty Research Initiative (FRI) grant awarded by the Center of Excellence (CEX) in Computer Information Systems, Dakota State University, 2008-09.
- "Ontologies for describing models: The case of structured modeling," Faculty Research Initiative (FRI) grant awarded by the Center of Excellence (CEX) in Computer Information Systems, Dakota State University, 2007-08.
- "Automated techniques for efficient dissemination of science and engineering knowledge," Travel grant for visit to NASA JPL awarded by the SD NASA EPSCoR Program 2007 Research Initiation Grants (RIG), in collaboration with El-Gayar, O. F. and Sarnikar, S., Fall 2007.

Grant Proposal-Writing Initiative honorarium, Office of Graduate Studies and Research & the University Research Committee, Dakota State University, Spring 2007.

“Computational Modeling of Group Tasks in Organizational Processes Based on Patterns and Group Interactions”, Faculty Research Initiative (FRI) grant, the Center of Excellence (CEX) in Computer Information Systems, Dakota State University, Spring 2007.

“A Computational Approach to Designing Interleaved Workflow and Groupware Tasks”, Faculty Research Initiative (FRI) grant awarded by the Center of Excellence (CEX) in Computer Information Systems, Dakota State University, October 2006 - April 2007.

DISSERTATION AND PROJECT SUPERVISION

Doctoral Dissertation Committee Chair: 3 students (Dawn Dittman, Ruba Aljafari, and Nazim Taskin)

Doctoral Dissertation Committee Member: 2 students (Paul Weist, and Rajeev Bukralia)

Masters Project Committee Member: 3 students (Varun Ambati, Asadul Alam, Robert Bremer (Spring '08), Madhu Burujukindi (Fall '07), Ali M. Khan (Sum '07))

TEACHING EXPERIENCE

College of Business & Information Systems, Dakota State University, Madison, South Dakota

INFS 810: Qualitative Research Methods (Fall 2009, Fall 2008)

INFS 692: Special Topics: Intelligent Decision Support Systems (Summer 2008)

INFS 838: Decision Support and Knowledge Management Research (Spring 2008, Spring 2009)

INFS 815: Quantitative Research Methods (Spring 2008, Spring 2009)

INFS 614: An Introduction to Research (Fall 2009, Fall 2008, Fall 2007, Spring 2007)

INFS 724: Project and Change Management (Fall 2007, Spring 2007, Fall 2006)

INFS 608: Applied Statistics for IS Research (Fall 2006)

Eller College of Management, University of Arizona, Tucson, Arizona

MIS 373: Basic Operations Management (Winter 2005-06, Winter 2003-04)

MIS 441: UI Design, Prototyping, and Evaluation (Summer 2005)

MIS 597A: Computer-Aided Deception Detection (Teaching Associate: Spring 2003 – 2006)

MIS 696A: Readings in MIS (Teaching Associate: Fall 2002 –2006)

INSTRUCTIONAL FUNDING

“Designing and developing an elective course (Intelligent Decision Support Systems) for the D.Sc. (IS) program for distance delivery”, Summer Course Development grant, Office of Extended Programs, Dakota State University, Summer 2008.

UNIVERSITY SERVICE ACTIVITIES

Dakota State University, Madison, South Dakota

Member, Graduate Council, Fall 2009 - present.

Member, D.Sc. (IS) comprehensive examination committee, 2008 - present.

Member, D.Sc. (IS) admissions committee, 2008 - present.

Member, Graduate committee, 2006 - present.

Chair, D.Sc. (IS) curriculum and program development sub-committee, 2006 - 2008.

Member, Faculty search committee, Fall 2006.

University of Arizona, Tucson, Arizona

Ph.D. Representative, MIS Department, University of Arizona, 2004 - 2006.

PROFESSIONAL SERVICE ACTIVITIES

Minitrack Co-chair, Business Process Management and Innovation, at Americas Conference on Information Systems (AMCIS 2009), San Francisco, CA, August 6-9, 2009.

Program Co-chair, Fourth Annual Midwest Association for Information Systems Conference (MWAIS '09), Madison, SD, May 22-23, 2009.

Program Committee Member, IEEE Symposium on Advanced Management of Information for Globalized Enterprises (AMIGE '08), Tianjin, China, September 28-29, 2008.

Minitrack Co-chair, Business Process Automation and Management, at Americas Conference on Information Systems (AMCIS 2008), Toronto, Canada, August 14-17, 2008.

Program Co-chair, Third Annual Midwest Association for Information Systems Conference (MWAIS '08), Eau Claire, WI, May 23-24, 2008.

Minitrack Co-chair, Business Process Automation and Management at Americas Conference on Information Systems (AMCIS 2007), Keystone, CO, August 9-12, 2007.

Panel member, Project Management, at the 2006 SD Techknowlogy Summit, Sioux Falls, SD, November 11, 2006.

PROFESSIONAL EDITORIAL ACTIVITIES

Reviewer for the following leading journals in the field of Information Systems:

Information Systems Research (ISR), Journal of Management Information Systems (JMIS), European Journal of Information Systems (EJIS), Business Process Management Journal (BPMJ), IEEE Transactions on Services Computing (TSC), Journal of Database Management (JDM), Information Systems Management (ISM).

Editorial Review Board Member, AIMS International Journal of Management (AIJM).

Reviewer for the following international conferences in the field of Information Systems:

Hawaii International Conference on System Sciences (HICSS) 2005-09, Americas Conference of Information Systems (AMCIS) 2004-08, Annual Meeting of the Decision Sciences Institute (DSI) 2008, The International Conference on Information Science, Technology and

Applications (ISTA) 2009, IEEE Conference on Intelligence and Security Informatics (ISI) 2007.

Reviewer for the following books in the field of Information Systems:

Modelling and Decision Support for Network-based Services, (Eds.) Dolk, D., and Granat, J., Springer, (forthcoming).

PROFESSIONAL AFFILIATIONS

Secretary, Midwest Association for Information Systems (MWAIS)

Member, Association of Information Systems (AIS), AIS Special Interest Group on Process Automation and Management (SIGPAM), AIS Special Interest Group on Decision Support, Knowledge and Data Management Systems (SIGDSS)

Life Member, Association for Computing Machinery (ACM)

Life Member, Association for the Advancement of Artificial Intelligence (AAAI)

Member, Decision Sciences Institute (DSI)

Member, Association of Indian Management Scholars International (AIMS International)

PROFESSIONAL WORKSHOPS AND TRAINING

Judging Grant Proposals, workshop by Miner & Associates, Inc., organized by the Sponsored Programs Office, Dakota State University, Madison, SD, Nov. 10, 2008.

itSMF USA Academic Summit at the Fusion 2008 Conference, San Francisco, CA, Sep. 6-7, 2008.

Workshop on "Making the Transition: Developing Electronic Portfolios", organized by the Sponsored Programs Office, Dakota State University, Madison, SD, March 29, 2007.

Junior Faculty Consortium (MIS Camp) at the International Conference on Information Systems (ICIS '06), Milwaukee, WI, December 10, 2006.

Successful Grantsmanship Miniconference at the 37th Annual Meeting of the Decision Sciences Institute (DSI '06), San Antonio, TX, November 19, 2006.

New Faculty Development Consortium at the 37th Annual Meeting of the Decision Sciences Institute (DSI '06), San Antonio, TX, November 18, 2006.

Fourth Americas School on Agents & Multiagent Systems (ASAMAS '05), held in conjunction with the AAAI 2005 Conference, Carnegie Mellon University, Pittsburgh, PA, July 7-10, 2005.

Collaboration Engineering Summer Camp, University of Nebraska, Omaha, NE, July 25-28, 2004.

REFERENCES

Available upon request.