VITA

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EDUCATION

Ph.D.,	MIS/Computer Science, University of Wisconsin-Milwaukee, 1989.
M.S,	MIS/Computer Science, University of Wisconsin-Milwaukee, 1985.
B.E.,	Mechanical Engineering, Birla Institute of Technology, Ranchi, India, 1980.

AFFILIATIONS

Purdue University

2003 -	Director, Purdue Homeland Security Insitute
2001 -	Director, Purdue e-Business Research Center Director, Indiana Consortium for e-Business Research
1993 -	Associate Professor, Krannert Graduate School Management.
1988 - 1993	Assistant Professor, Krannert Graduate School Management.

Institute for Defense Analyses

10/95 - 2005	Adjunct Research Staff Member, Institute for Defense Analyses, Alexandria, Virginia. IDA is a federally funded research and development center (FFRDC), whose purpose is to promote national security and the public interest.

Simulex Inc.

1999 -	Founder and Chief Technology Officer.

University of Wisconsin-Milwaukee

6/87 - 7/88	Research Assistant, School of Business Administration.
8/86 - 5/87	Graduate School Fellow, Lecturer, School of Business Administration.
1/84 - 6/86	Teaching Assistant, School of Business Administration.

Tata Iron & Steel Company, Jamshedpur, India

10/82 - 6/83	Purchase Manager.
1/81 - 9/82	Engineer, Mechanical Maintenance.

RESEARCH INTERESTS

Homeland Security: Counterterrorism, Preparedness and Response; Bio-terrorism and Individual-based Computational Epidemiology; Synthetic Environment for Analysis and Simulation (SEAS); Grid Computing; Electronic Commerce; Computational Models of Human Behavior and Artificial Agents; Machine Learning and Evolutionary Computing; Enterprise Integration and Enterprise Information Systems Strategy.

RESEARCH GRANTS AND AWARDS

PI, “Center for Computational Homeland Security,” $2,200,000 Indiana 21st Century Research and Technology Fund (co-PIs: Coyle, Dark, Engi, and Mehta)

PI, ‘Synthetic Environment for Continuous Experimentation,” $1,178,000 ITR grant from National Science Foundation (co-PIs: R. Aliprantis, E. Houstis, S. Mehta, J. Busemeyer, R. Bartlett, M. Ward, S. Mittal, and D. Dolk).

PI, ‘Synthetic Environment for Continuous Experimentation,” $1,350,000 grant from Joint Program Executive Office for Chemical/Biological Defence (co-PIs: R. Aliprantis, E. Houstis, S. Mehta, J. Busemeyer, R. Bartlett, M. Ward, S. Mittal, and D. Dolk).

Co-PI, “Air Traffic Management Research for the 21st Century and Beyond,” $90,000 grant from e-enterprises Center (co-PIs: M. Rotea, D. Andrisani, T. Carney, M. Nolan, and S. Mehta), 2003.

PI, “Scalable Enterprise Systems Phase II: Agent Based Scalable Enterprise System for Enterprise Co-Design,” $500,000 grant from National Science Foundation, 2001.

PI, “ICER: Indiana Consortium for e-business Research,” $1,000,000 grant from Indiana State 21st Century Research and Technology Fund, 2001

PI, “Neptune: NAVAIR Supply Chain Modeling and Simulation,” $120,000 grand from Office of Naval Research, 2001.

Co-PI, “Behavior Based Artificial Agents for Information Security, ”$60,000 grant from the Center of Education and Research in Information Assurance and Security (CERIAS), Purdue University, 2001 (co-PIs Mukul Gupta, Shailendra Mehta, and Bharat Bhargava)

PI, “An Agent-based Modeling Framework for Scalable Interdependent Markets and Organizations" $100,000 National Science Foundation, 2000.

PI, “DoD Acquisition Policy Live Cases, $131,000 grant from the US Navy, 1999.

PI, “Information Security Policy for e-Commerce in the Financial Sector,” $50,000 grant from the Center for Education and Research in Information Assurance and Security (CERIAS), Purdue University, West Lafayette, IN 47907, 1999. (co-PIs S. Mehta and M. Gupta)

PI, “Web-based 3D Modeling and Visualization for Supply-Chain Forecasting,” (co-PI Gordon Wright), funded $75,000 by SAP America, 1998.

PI, “Database and User Interface Design for the Synthetic Environments for National Security Estimates,” Funded $20,000 by Institute for Defense Analyses, 1998.

PI, “Synthetic Environments for Analysis and Simulation,” (co-PIs Shailendra Mehta and Chandrajit Bajaj), funded $253,000 equipment grant from Intel, 1997.

PI, “Economics of Software Renting and Superdistribution,” over $11,000 grant from Purdue Research Foundation, 1997-98.

PI, “Center for Computational Image Analysis and Visualization,” charter member, funded $100,000 a year recurring through Purdue University research Reinvestment program.

PI, “3-D Fax,” (with C.L. Bajaj) funded 23,000 by AT&T Foundation, 1995.

PI, "Measuring the Effectiveness of Distance Learning," funded $36,000 by PictureTel, 1994.

PI, "Real-Time and Multimedia Transaction Processing for Enterprise Integration," funded $10,200 by Purdue Research Foundation, 1994.

PI, "Computational Ecology and Organizational Design," funded $49,999 by IBM, 1993.

Co-PI, "Enhanced Teaching and Learning Effectiveness Using Technology Based Delivery," Co-Principal Investigator, project, funded $1,200,000 for five years by Ameritech, 1993.

PI, "Virtual Collocation and Navigation through Virtual Environments," (co-PI C.L. Bajaj), funded $30,000 by CMME, Krannert School of Management, Purdue University, 1993.

PI, "Workgroup Computing," funded $4,500 by Microsoft.

PI, "Key Information Systems Management Issues in Developing Countries: Differences in the Indian and US Contexts." Research funded by the Center for International Business and Economics Research (CIBER), Krannert Graduate School of Management, Purdue University, funded by CIBER, 1993.

PI, "Model Management Systems in Business: An Empirical Study," (co-PIs G. Wright and Radha Mookerjee) a Research Grant of $10,000 from AT&T-GIS, January 1992 - December 1992.

PI, "An Architecture for Cooperative Control in Computer Integrated Manufacturing," (with Rakesh Gulati). Research funded by a dissertation fellowship to Rakesh from the Center for the Management of Manufacturing Enterprises, Krannert Graduate School of Management, Purdue University, 1992.

PI, "An Architecture for Manufacturing Enterprise Integration," (co-PI D.L. Nazareth), Research funded by a Grant from the Center for the Management of Manufacturing Enterprises, Krannert Graduate School of Management, Purdue University, 1992.

PI, "Neural Nets for Scheduling Algorithm Selection" (co-PI K. Altinkemer & E. Tunc), Research funded by a Grant from the Center for the Management of Manufacturing Enterprises, Krannert Graduate School of Management, Purdue University, 1992.

PI, "Expert System Problem Selection: An Innovation Management Perspective," (co-PI Carol Brown) a Research Grant of $2,000 from the Center for the Management of Manufacturing Enterprises, Krannert Graduate School of Management, Purdue University, 1990.

PI, "A Hybrid Model for FMS Scheduling: Integrating Simulation and Machine Learning," a Research Grant of $3,500 from the Center for the Management of Manufacturing Enterprises, Krannert Graduate School of Management, Purdue University, 1989.

PATENT PENDING

US Utility Patent Application Serial Number 10/023,594. A broad patent with over two dozen claims.

REFEREED PUBLICATIONS

1. Bandyopadhyay, Barron, and Chaturvedi, "Competition among Sellers in Online Exchanges," *Information Systems Research,* Vol 16., No. 1, pp 47-60, 2005.

2. Mukul Gupta, Jackie Rees, Alok Chaturvedi, and Jie Chi, "Matching Information Security Vulnerabilities to Organizational Security Profiles: A Genetic Algorithm Approach," *Decision Support Systems*, in print.

3. Chaturvedi, A. Mehta, S., and Gupta, M.K., "Computational Experimentations in Market and Supply-chain Co-design," *Journal of Information Systems and E-Business Management*, in print.

4. Chaturvedi, Mehta, Dolk, and Ayer, "Artificial Labor Market," *European Journal of Operational Research*, No. 166, pp 694-716, 2005

5. Busemeyer, J., Barkan, R., Mehta, S. and Chaturvedi, A., "Context Effects and Models of Preferential Choice: Implications for Consumer Behavior, *Marketing Theory*, in print.

6. Bose, I., Altinkemer, K., and Chaturvedi, A. , "Tradeoff Decisions in the Design of a Backbone Network using Visualization" *Decision Support Systems, 35 (2003) 335-351*.

7. Yue, Wei T. and Chaturvedi, Alok, "The Reward Based Online Shopping Community," *EM - Electronic Markets,* Vol. 10, No. 4, 2000.

8. Chaturvedi, A. R., Choubey A. K., and Roan, J. S., "Active Replication and Update of Content for Electronic Commerce." *International Journal of Electronic Commerce*, vol. 5, no 3, 2000.

9. Chaturvedi, A. R. and Mehta, S., "Simulations in Economics and Mangement: Using the SEAS Simulation Environment," *Communications of the ACM*, March 1999.

10. Chaturvedi, A. R., Choudhary, V., and Tomak, K., "Economic Benefits of Software Renting," *Journal of Organizational Computing and Electronic Commerce*, 1999.

11. Wright, G,, Chaturvedi, A.R., Mookerjee, R., and Garrod, S., "Integrated Modeling Environment in Organizations: An Empirical Study," *Information Systems Research*, vol. 9, no. 1, March 1998.

12. Altinkemer, K., Chaturvedi, A.R., and Kondareddy, S., "Business Process Reengineering and Organizational Process: An Exploration of Issues," *International Journal of Information Management*, 1998.

13. Chaturvedi, A. R., and Gupta, S., "SimDS: A Simulation Environment for the Design of Distributed Database Systems," *Database*, 1998.

14. Altinkemer, K., Chaturvedi, A. and Kondareddy, S., "Evolution of America's Infostructure," *Decision and Information Technologies*, vol 19, pp 483-498, 1994.

15. Altinkemer, K., Chaturvedi, A., and Gulati, R.K., "Information Systems Outsourcing: Issues and Evidence," *International Journal of Information Management*, vol 14, no 4, pp 252-268, 1994.

16. Chaturvedi, A.R., Choubey, A.K., and Roan, J.S., "Scheduling the Allocation of Data Fragments in a Distributed Database Environment: A Machine Learning Approach," *IEEE Transactions on Engineering Management,* vol 41, no.2, pp 194-207, 1994.

17. Chaturvedi, A.R. and Nazareth, D., "Investigating the Effectiveness of Conditional Classification: An Application to Manufacturing Scheduling, "*IEEE Transactions on Engineering Management,* vol 41, no.2, pp 183-193, 1994.

18. Chaturvedi, A.R., "FMS Scheduling and Control: An AI Approach to Achieve Multiple Decision Goals," *Expert Systems with Applications: International Journal*, vol. 6, pp. 267-286, 1993.

19. Chaturvedi, A.R., "Acquiring Implicit Knowledge in a Complex Domain," *Expert Systems with Applications: International Journal,* vol. 6. pp. 23-35, 1993.

20. Chaturvedi, A.R., Hutchinson, G. K. and Nazareth, D. "Supporting Complex Real-Time Decision Making through Machine Learning," *Decision Support Systems*, vol 9, pp. 1-21, 1993.

21. Mookerjee, V. & Chaturvedi, A.R., "A Blackboard Control Architecture for Model Management," *European Journal of Information Systems*, vol 2, no 1, 1993.

22. Chaturvedi, A.R., Hutchinson, G. K. and Nazareth, D. "A Synergistic Approach to Manufacturing Systems Control using Machine Learning and Simulation," *Journal of Intelligent Manufacturing*, Vol 3, pp. 43-57, 1992.

23. Chaturvedi, A.R., Hutchinson, G. K. and Nazareth, D. "A Synergistic Approach to Manufacturing Systems Control using Machine Learning and Simulation," Journal of Intelligent Manufacturing, Vol 3, pp. 43-57, 1992.

24. Jain, H.K. and Chaturvedi, A.R., "Expert System Problem Selection: A Domain Characteristics Approach," *Information and Management*, 17:4, 1989.

25. Chaturvedi, A.R. and G.K. Hutchinson, "Information Organization in Flexible Automation Systems," *Computers in Industry*, 9:4, 1988.

REFEREED CONFERENCE PROCEEDINGS

26. Chaturvedi, Chi, J., Mehta S., "SAMAS: Scalable Architecture for Multi-Resolution Agent-based Simulation, ICCS 2004, Krakaw, Poland, June 7-9 2004.

27. Foong, C., Armstrong, B., Dilley, D., Grahn, J., Krull, K., Chaturvedi, A., Gore, J., Filatyev, S. "Towards Enabling A Distributed And Scalable Society Of Simulations." *2005 Spring Simulation Multiconference (SpringSim'05)* (2005).

28. Adams, D., Smith, M., Chaturvedi, A., Rotea, M., Hoffman, C., Craig, B., Venkatsubramanian, V., Mahmassani, H., Pines, D., Meliopoulis, S., and Busemeyer, J., "Integrated Prognostic System of Systems Health Management," Proceedings of the Minerals, Metals, & Materials Soceity (TMS) Conference, New Orleans 2004.

29. Chaturvedi, A. R., Chaturvedi, R., and Dolk, D. R., "Agent Based Modeling of International System", Agent 2004, University of Chicago, 2004.

30. Drnevich, P.L., Chaturvedi, A., Mehta, S., and Ramanujam, R. "Affiliation or Situation? Preferences in Coordinated Interorganizational Response To Bio-Terrorism," Proceeding of the Academy of Management Conference, 2004

31. Drnevich, P.L., Chaturvedi, A., Mehta, S., and Brush, T., "Strategic Decision Making Process Effectiveness: The Role of Choice in Responses to Bio-Terrorism." Proceedings of SMS Conference, 2004, Porto Rico

32. Bandyopadhyay, S., Chaturvedi, A., Barron, J, Rees, J, and Mehta, S., "Simulating Sellers' Behavior in a Reverse Auction B2B Exchange," in *ICCS 2003, Lecture Notes in Computer Science 2660,* pp. 365-374, Sloot, Abromson, Bogdanov, Dongarra, Zomaya, Gorbachev (eds.).

33. Chi, J., Chaturvedi, A. R., Grama, A., and Mehta, S. R., "Oceanus: A Distributed Web-based Framework for Execution of Genetic Algorithms," Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2002), New York, New York, July 2002.

34. Jaisingh, Jeevan and Chaturvedi, Alok, "Privacy and the Value of Information in Adverse Selection Markets," *Proceedings of the 5th International Conference on Electronic Commerce and Research* (ICECR-5 2002), Montreal, Canada, Oct. 2002.

35. Jaisingh, Jeevan, Jack Barron, Chaturvedi, Alok, and Shailendra Mehta "Privacy on the Internet: An Economic Analysis," *Proceedings of the Americas Conference on Information Systems* (AMCIS 2002), Dallas, Texas, August 2002.

36. Yu, Liang and Chaturvedi, A., "Competition between B2B Electronic Marketplaces: Differentiation, Pricing Strategy and Industrial Structure" *Americas Conference on Information Systems*, Boston MA, August 3-5, 2001. Received best paper award.

37. Bandyopadhyay, S. and Chaturvedi, A., "Establishing a frameworkfor market power in e-tailing: An empirical study," *Proceedings of the Hawaii International Conference on System Sciences* (HICSS34) 2001.

38. Chaturvedi, A. R., Gupta, M.K., Mehta, S. R., and Valeri, L., "Experimental Analysis of Information Security Management Issues for the Online Financial Services", *International Conference in Information Systems*, Brisbane, Australia, 2000.

39. Yue, W.T., Chaturvedi, A.R., and Mehta, S. R., "Is More Information Better? The Effect of Traders' Irrational Behavior on an Artificial Stock Market," *International Conference in Information Systems*, Brisbane, Australia, 2000.

40. Chaturvedi, A. R., Mehta, S. R., Gupta, M. K., and Valerie, L., "Information Security Issues for On-line Banking, *I N E T 2 0 0 0*, The 10th Annual Internet Society Conference, Yokohama, Japan, 18-21 July 2000.

41. Chaturvedi, A. R., Mehta, S. R., Gupta, M. K., and Yue, W. T., "Agent-Based Simulation Approach to Information Warfare in the SEAS Environment" *HICSS minitrack on Agent-based Simulations*, January 2000.

42. Chaturvedi, A.R., Choudhary, V., and Tomak, K., "Effect of Network Externalities on Software Pricing", HICSS minitrack on Formal Aspects of Electronic Commerce, January 1998.

43. Chaturvedi, A. R., Choudhary, V., and Tomak, K., "An Economic Model for Microrenting in Electronic Commerce," AIS Conference, Indianapolis, August 15-17, 1997.

44. Chaturvedi, A. R. and Gupta, S., "Distributed Transaction Processing: Scalability and Networking Issues," Proceedings of the Association of Information Systems Conference, Phoenix, Arizona, August 1996.

45. Chaturvedi, A. R., Garrod, S., and Lightner, N., "Visualization of Firms' Diversification Strategy," Proceedings of the Association of Information Systems Conference, Phoenix, Arizona, August 1996.

46. Bajaj, C.L., Chaturvedi, A. R., and Zhang, P., "Brokered Collaborative Infrastructure for CSCW," Fourth Workshop on Enabling Technologies: Infrastructure for Collaborative Enterprises (WET ICE), April 20-22, 1995, Berkeley Springs, West Virginia, USA.

47. Chaturvedi, A.R. and Gulati, R.K., "Computational Ecology of Manufacturing Systems," Workshop on Information Technologies and Systems, Orlando, Florida 1993.

48. Chaturvedi, A. R., & Rich, J., "CSES: An Expert System for the design of Client/Server Computing,' Proceedings of the Information Technology Management Group's Eleventh Annual Conference, Atlanta, Georgia, August 5 - 9, 1993.

49. Altinkemer, K. & Chaturvedi, A. R., "Neural Networks for Topological Design of Local Access Tree Networks," Proceedings of the Telecommunication Systems Conference: Modeling and Analysis, Vanderbilt University, Nashville, Tennessee, February 28 - March 3, 1993.

50. Chaturvedi, A. R and Gulati, R. K., "Adaptive Configuration Management for Manufacturing System Control," Proceedings of the NSF Workshop on Intelligent, Dynamic Scheduling for Manufacturing Systems, Cocoa Beach, Florida, January 25-27, 1993.

51. Chaturvedi, A. R and Gulati, R. K., "Cooperative Control Architecture," Proceedings of the AAAI Workshop on Scheduling and Production Control, San Jose, California, July 1992.

52. Chaturvedi, A.R., Hutchinson, G. K. and Nazareth, D. "FMS Scheduling Using Goal-Directed Conceptual Aggregation," Proceedings of the Seventh IEEE Conference on Artificial Intelligence Applications, Miami Beach, Florida, Feb 24-28, 1991.

53. Chaturvedi, A.R., "Expert System Problem Selection: An Innovation Management Perspective," Proceedings of the 1990 ACM-SIGBDP International Conference on Trends and Directions in Expert Systems, Orlando, Florida, 1990.

54. Chaturvedi, A.R. and G.K. Hutchinson, "FMS Scheduling: A Machine Learning Approach," Proc. of AAAI-SIGMAN Workshop on Manufacturing Production Scheduling, Detroit, Aug. 1989.

BOOK CHAPTERS AND OTHER REFEREED PUBLICATIONS

55. Chaturvedi, A., Mehta, S. and Drnevich, P., "Computational and Live Experimentation in Bio-terrorism Response," forthcoming in *Dynamic Data Driven Applications Systems*, F. Darema (ed), Kluwer Publications, pp 1-16, 2004

WORKING PAPERS, ARTICLES UNDER REVIEW, & RESEARCH IN PROGRESS

Papers Under Review

56. Chaturvedi, A., Foong, C., Armstrong, B., Dilley, D., Grahn, J., Krull, K., Gore, J., Filatyev, S. "A Society of Simulations." *Submitted to Transactions on Systems, Man, and Cybernetics*.

57. Bandyopadhyay, Barron, and Chaturvedi, "Capacity and entry issues in online exchanges," *Decision Support Systems* – under 1st revision.

58. Jaisingh, Barron, Chaturvedi, and Mehta, "Privacy on the Internet: An Economic Analysis," *Journal of MIS* – under 1st revision

59. Jaisingh, Chaturvedi, and Mehta, "An Experimental Study of Information Markets: Pricing Personal Information and Welfare Implications of Privacy Laws," *JMIS*.

60. Chaturvedi, A., Gupta, Samir, Choubey, A.K., Chi, Jie, and Gupta, Mukul, "Computational Experiments in Cluster and Network Design," *Telecommunications Systems*.

61. Chaturvedi, A., Dolk, D.R., Mehta, S., and Drnevich, P.L., "Mixed Agent Modeling for Computational Experiments in Bio-terrorism Response," *INFORMS Journal of Computing*.

Manuscripts Under Preparation

62. Gupta, M., Mehta, S.R., and Chaturvedi, A. R, "Computer Crime And Security: An Economic Analysis," to be submitted to Information Systems Research.

63. Choudhary, V., Mehta, S.R., Chaturvedi, A.R., Barakataki, S., "Renting and Selling of Durable Good – An Experimental Approach.

64. Yue, Chaturvedi, and Mehta, "Simulation Modeling of Overconfident Trading Behavior in the Synthetic Stock Market," the target journal is *Journal of Artificial Societies and Social Simulation*.

65. Gupta, Chaturvedi, and Mehta "An Analysis of Information Security Issues in an Artificial Environment."

66. Chaturvedi, Mehta, and Dolk, "NAVAIR Supply Chain Modeling," the target journal is *Naval Research Logistics*.

67. Yu, Chaturvedi, and Mehta, "Competition between B2B Electronic Marketplaces: Differentiation, Pricing Strategy and Industrial Structure."

Funded Research in Progress

1. ABS for Sortie Generation
2. Scalable Architecture for Distributed Tera-scale Computing.
3. Market and supply chain co-design of convergent technologies.
4. Distance Support and Response.
5. Modeling fast access long term memory in artificial agents.
6. Massively Parallel Algorithms for Combinatorial Problems (Traveling Salesman Problem, Vehicle Routing Problem, etc.)
7. Comparison of rational and psychological models of decision making in a synthetic environment.
8. Computational models of hacker behaviors.
9. Modeling mobility behaviors of artificial agents.
10. Individual based computational model of epidemiology.
11. Co-modeling of mobility and epidemiology.

SYNTHETIC ENVIRONMENT FOR ANALYSIS AND SIMULATION (SEAS) EXERCISES

Measured Response 2002 (MR02), **MR 03, MR 04**: Measured Response simulates a bio-terrorist attack during a major spectator event and the actions of the responders at the local, state, and federal levels. It used over 250,000 artificial agents to model the behavior such as mobility, emotions, and epidemiology of the citizens of United States. Measured Response is one of the first applications of distributed tera-scale computing that runs on two super computers, one at Purdue and the other at Indiana University, linked by i-Light gigabit network.

Senior officials and executives from the following agencies and companies participated: Office of Homeland Security, FBI, CDC, NIH, NSF, Institute for Defense Analyses, Sandia National Laboratory, National Guard, Coast Guard, Indiana Counter Terrorism and Security Council, Indiana State Department of Health, Indiana Department of Transportation, State Emergency Response Agency, Local Police and Fire Chieves, Mayor, Red Cross, IBM, Eli Lilly, Abbott Labs, Intel, and Ford.

August 2001: **RecruitSIM**: Conducted Strategic Planning Wargame for the Commanding General of US Army Recruiting Command and his Brigade Commanders at Fort Knox, Ky. During this exercise the brigade commanders investigated different recruiting strategies to meet the challenges that they will face in the future when the army transformation process in implemented.

May 2001: **Project Neptune**: Conducted a war game for US Naval Air Command, NAVAIR Base, Pax River, MD. This exercise highlighted the need for selecting the right e-business model in order to maintain the high level of readiness while dramtically lowering the inventory levels for both peace time and war time scenarios.

January 24, 2000: **FirmHandshake**: A recruiting and training game to help the US Army to formulate strategy for hiring, training, and retaining soldiers with high mental capability, Washington DC.

December 3, 1999: **Acquisition Live Case** at U.S. Navy Acquisition Center for Excellence, Washington DC. This exercise enabled the DoD leadership to explore the issues related to e-business.

PRESENTATIONS AND SEMINARS

"Validation for Computational Experimentation: Replication of Voilence in Maluku," Army War College, Carlisle, PA, August 27-28, 2004.

"Synthetic Environment for the Analysis of Social and Behavioral Impact of Terrorism and Counter Terrorism," ICATHS 2004, University of Connecticut, August 12-13, 2004.

"Individual Based Epidimiological Modeling Environment," Princeton University, July 2002.

"Measured Response: Simulating Co-ordination of Response to a Bio-terror Attack during a Major Spectator Event," NSF Conference on Delibrate Release of Biological Agents, March 2002.

"Product, Market, and Supply-Chain Co-Design," invited speaker at e-business conference at University of Technology and Management at Rzeszow, Poland, May 9-11, 2001

"Business-to-business e-Commerce: The evolution of intermediaries in the PC Industry," Workshop on e-Business, Bloomington, Indiana, October 1999.

"Computational Models of Human Behavior: Experiments with Offensive and Defensive Cyber Crime Strategies," (with S. Mehta, M. Gupta, and L. Valarie), Aachen University, Germany, August 1999.

"Information Warfare using SEAS," Workshop on Information Warfare, Kings College, London, July, 1998.

"Business and Economic Simulation for Policy Development and Analyis," YUInfo Conference, Belgrade, March 1998.

"Visualization of Organizational Modeling," HCI Conference, San Francisco, CA August 1997.

"Scheduling of Transactions in a Real-Time TPS," INFORMS, Singapore, June 1995.

"Learning to Navigate in Virtual Environments," INFORMS, Singapore, June 1995.

"Navigation in Vitual Environments," INFORMS Spring Meeting, Los Angeles, CA, 1995

"Information Systems Strategies for Transnational Corporations," sponsored by Confederation of Indian Industries (CII), New Delhi, India, November 1994.

"Competing Globally through Information Technology," sponsored by Tata Consulting Services, Calcutta, India, November 1994.

"Virtual Environments for Business Decision Making," Nijenrode University, The Netherlands, October 1994.

"Visualizing Manufacturing Schedules," ORSA/TIMS Joint National Meeting, Detroit, Oct. 1994.

"An Architecture for Cooperative Control in Computer Integrated Manufacturing," AAAI Workshop on Intelligent Scheduling, San Jose, CA July 1992.

"Improving FMS Schedules through Implicit Learning," Workshop on Learning-based Scheduling Paradigms, University of Florida, Gainsville, 1992.

"Neural Nets for Topological Design of Local Access Tree Networks," (with K. Altinkemer and Hari Sankar), TIMS/ORSA Joint National Meeting, Anaheim, CA, 1991. Organized and chaired a session on Machine Learning.

"Time-Invariant Fragmentation," TIMS/ORSA Joint National Meeting, Nashville, TN, May 1991.

"Conceptual Aggregation of Models," TIMS/ORSA Joint National Meeting, Las Vegas, May 1990.

"Modeling the Extent of Knowledge in an Expert System," (with V. Mookerjee) TIMS/ORSA Joint National Meeting, New York, Oct. 1989.

"FMS Scheduling: A Machine Learning Approach," AAAI-SIGMAN, Detroit, Aug. 1989

"A Hybrid System for Scheduling," Expert Systems and the Leading Edge in P/OM Management Conference, Hilton Head, SC, May 1989.

"On Using Simulation to Test AI Models," (with G. K. Hutchinson) TIMS/ORSA Joint National Meeting, Vancouver, Canada. May 1989.

"CIM Technology Transfer: A Cross-Cultural Analysis," TIMS/ORSA Joint National Meeting, Washington DC, April 1988.

"Representation of Uncertain Data in Database Systems," TIMS/ORSA Joint National Meeting, Washington DC, April 1988.

"Information Flow in Automated Manufacturing Systems," National Bureau of Standards, Gaithersburg, Maryland, August 1987.

INVITED TALKS

- Director of the Office of Science and Technology Policy Office, Executive Office of the President, the White House
- Council of Economic Advisors, Executive Office of the President, the White House
- USAID
- Director of Center for Disease control (Bio-Defense), CDC, Atlanta
- Assistant Secretary of the Army (Acquisition, Logistics & Technology), The Pentagon
- Secretary of the Navy's Strategic Studies Group, The Pentagon
- Commanding General of the US Army Accession Command, Fort Knox, Ky
- Science and Technology Advisor to Joint Forces Command, Suffolk, Va

EDITORIAL BOARD AND EDITORSHIP

- Editorial Board of Journal of the Association of Information Systems
- Guest Associate Editor of Management Science
- Associate Editor, International Conference on Information Systems, 2003

JOURNALS REVIEWED FOR

- Information Systems Research
- ORSA Journal of Computing
- Decision Sciences
- Decision Support Systems
- Expert Systems with Applications: An International Journal
- IEEE Computer
- Journal of Intelligent Manufacturing
- Management Science
- IEEE Visualization

TEACHING INTERESTS

- Enterprise IT Strategies
- IT for e-business
- Internet and "Active" Systems Development
- Enterprise Integration with SAP
- Database Systems with Oracle
- Business Intelligence and Data-mining
- Decision Support and Intelligent Systems
- Agent based modeling of supply chain

COURSES TAUGHT

- Information Technology for e-business
- Enterprise Integration with SAP
- Synthetic Environments and Business Simulations
- Virtual Environments and Business Visualization
- Management of Enterprise Information Systems (at Undergraduate, MBA and Executive levels)
- Doctoral Seminar on Visualization and Synthetic Enviroments, Information Economics, Machine Learning, Databases
- Database Management Systems
- Object-Oriented Analysis and Design for Client/Server Systems
- Decision Support and Expert Systems

PH.D. STUDENTS ADVISED

Major Professor:

Liang Yu (Dec. 2004)
Evalyn Henderson (Expected 2005)
Sarad Barakataki (Expected 2005)
Jeevan Jaisingh (2003), HKIST
Mukul Gupta (2003), University of Connecticut
Shubhajyoti Bandyopadhyay (2002), University of Florida

Wei T. Yue (2002), University of Texas, Dallas.
Vidyanand Choudhary, (1998), University of California, Irvine
Nancy Lightner, (1998), University of South Carolina.
Samir Gupta, (1995), *ORIX Corporation*, New York, New York.
Radha Mookerjee, (Co-Chair) (1993), University of Texas, Dallas.
J.S. Roan, (1991), National Chung Cheng University, Taiwan.

Committee Member:

Karen Tomak, MIS
Indranil Bose, MIS.
Paul Beckman, MIS.
S. Kondareddy, MIS.
B. Kim, MIS.
Peinan Zhang, Computer Science.
Rajesh Piplani, Industrial Engineering.
Scott Moses, Industrial Engineering.
James Chu, Industrial Engineering.
Charles Trappey, Consumer Sciences and Retailing.
Dan Worobetz, Management Science.

OTHER PROFESSIONAL ACTIVITIES

Conceived and directed Measured Response – Homeland Security Simulation at Purdue University. Organized MR 02, MR 03, and MR 04.

Member of a Virtual Institute for Advanced Modeling, involving eight research institutes world wide.

Organized the Workshop on Simulation Based Acquisition at the Institute for Defense Analyses, November 19, 1998, Washington D.C.

Co-chair for the Workshop on Synthetic Economies at the Institute for Defense Analyses, July 23-24 1997, Washington D.C.

Member of Program Committees of several IS conferences.

Offered a number of courses on Client/Server Computing and Object-Oriented Analysis and Design in Chicago, Milwaukee, and Washington D.C.

"Client/Server Computing: Using Information Technology Productively," a series of two-day workshops at Siemen's, Erlangan, Germany and at Bangalore, Bombay, and New Delhi, India, July-August 1992.

Organized the "Enterprise Integration: New Competitive and Organizational Landscapes," conference at Purdue University, September 20-21, 1993.

Cluster Chair for Artificial Intelligence Track for the TIMS/ORSA Joint National Meeting, Phoenix, Arizona, November 1-3, 1993.

Member of the Association of Computing Machinery, American Association for Artificial Intelligence, The Institute of Operations Research and Management Science (INFORMS).

HOMELAND SECURITY INSTITUTE ACTIVITIES

Developing a Masters of Technology in Homeland Security program.

Proposals written:

- PI, "Center for Computational Homeland Security," $2,200,000 Indiana 21st Century Research and Technology Fund (co-PIs: Coyle, Dark, Engi, and Mehta) Funded
- PI, 'Synthetic Environment for Continuous Experimentation," $1,350,000 grant from Joint Program Executive Office for Chemical/Biological Defence (co-PIs: R. Aliprantis, E. Houstis, S. Mehta, J. Busemeyer, R. Bartlett, M. Ward, S. Mittal, and D. Dolk). Funded
- Co-PI, "DHS Center of Excellence in Post Harvest Food Security and Protection," (a member of the consortium of seven universities lead by Kansas State University). Site visit
- Co-PI, "DHS Center of Excellence in Foreign Animal and Zoonotic Diseases," (a member of the consortium of seven universities lead by Michigan State University). Site visit
- Co-PI, "DHS Center of Excellence in Social and Behavioral Impact of Terrorism and Counter-terrorism," (a member od consortium of seven universities, lead by Uniersity of Chicago) – Proposal selected for Department of Homeland Security (DHS) site visit.

Developed a vision for Computational Homeland Security and presented it to:

- Purdue Center Directors
- Associate Deans and Department Heads.

Organized Indiana wide workshop on:

- Modeling and Simulation
- Sensors and Sensor Network
- Social and Behavioral Impact of trrorism

Organized Measured Response 2004, over 140 people attended including the Undersecretary of department of Homeland Security for Science and Technogy, Mr. Charles McQueary

INTERDISCIPLINARY RESEARCH ACTIVITY

Dr. Chaturvedi is the Director of Purdue Homeland Security Institute.

Dr. Chaturvedi chaired the Purdue's CyberInfrastructure Advisory Committee.

Dr. Chaturvedi is the Director of Purdue e-Business Research Center.

Dr. Chaturvedi is the Director of Indiana Consortium for e-Business Research.

Dr. Chaturvedi is a charter member of Purdue's Computing Research Institute.

Dr. Chaturvedi is a charter member of Center for Wireless Systems and Applications

Dr. Chaturvedi is actively involved with Purdue's Center for Education and Research on Information Assurance and Security (CERIAS) on information security research and education.

Dr. Chaturvedi helped establish Purdue's Center for Computational Image Analysis and Visualization as a charter member.

EXTERNAL ACTIVITIES

Feb. 99 – Present Simulex, Inc.

As the Founder and the Chief Technology officer of the company, Dr. Chaturvedi has developed one of the most advanced agent-based simulation environments. Simulex's clients list include: two fortune 500 companies, an Asian wireless communication company, US Army Accession Command, Naval Air Command, and Joint Forces Command.

Jan 98 - Dec. 1998 SAP America
Help design and develop web-based visualization environment to run with SAP's Business Warehouse Products.

Aug 91 - Dec. 1997 Bell Atlantic, Freehold, New Jersey
Help design and develop client/server computing strategies.

May 91 - July 91 NCR Corporation, Dayton, Ohio
Helped define and develop vision, mission, and product concept for the Decision Enabling Services group.

HONORS AND AWARDS

- Dr. Chaturvedi was awarded **Sagamore of the Wabash** by the Governor of Indiana for his services in the homeland security. Sagamore of the Wabash is the highest civilian award in the state of Indiana,
- Invited to brief the Council of Economic Advisors of the White House.
- Invited to brief the Director of Science and Technology Policy Office of the White House, May 2002.
- Invited to brief the Strategic Studies Group of the Secretary of the Navy, Pentagon, September 2002.
- Invited to brief the Science and Technology Advisor to Joint Forces Command, Suffolk, September 2002.
- Invited to brief the Assistant Secretary of the Army (Science and Technology), Pentagon, February 2002.
- Graduate School Dissertation Fellowship, 1986-87
- Phi Kappa Phi, 1986
- Beta Gamma Sigma, 1985

INTERESTS

Tennis, Cricket, Golf, and Bridge.