Professor Amit P. Sheth

Research Areas

Education

Academic Positions

Entrepreneurship and Industry Employment

Speeches and Talks
Keynote and Plenary Talks
Conference and Workshop Invited Talks
Invited and Colloquia Talks
Chief Guest/Speaker at Special Events
Tutorial Presentations at International Conferences
Panel Presentations at Conferences and Workshops

Publications
Books Authored or Co–Authored
Books Edited and Co–Edited
Journal Papers (Refereed)
Chapters in Books
Conference Publications (Invited)
Conference Publications (Refereed)
Invited or Other Journal Publications
Workshop and Symposium Publications (Refereed)
Other Publications: Conference Proceedings (Refereed or Invited Short Papers/Abstracts)
Other Publications: Articles in Informal Proceedings or Non-Refereed Papers

Research Funding / Grants and Contracts Received as PI (since 1994)
Industry/Consortia Funds
State and WSU Funds
Industry Cash Gifts Received
Industry Donations Received

Recognition, Outstanding Achievements and Honorary Appointments

Professional or Scholarly Activities
Technology Licensing, Commercialization and Deployed Systems
Interviews and Profiles
Editorship of International Conference and Workshop Proceedings
Editorship of Special Issues of Journals and Technical Society Magazines
Creative Contributions other than Formal Publications (since 1994)
Editorship
Industry Courses and Workshops
Technical Meetings (Conferences, Workshop) Organization
Program Committee Member for the International Conferences and Workshops

Other Services (Sessions, Reviews, Funding Panels, Societies)

Curriculum Development (Initiatives and New Courses)

Instruction and Academic Services (since 1994)
Courses Taught
Supervision of Student Research
University and Public Service

Research Areas

Computing for Human Experience

Semantics-enabled services, sensor and social computing on the Web 3.0 (includes Semantic Sensor Web, mobile semantic services (analysis of tweets and social networking), Citizen Sensor Networking and its combination with multi-level sensing for situational awareness, collective intelligence, advertisement on social networking site, smart/semantic mashups, annotation of enterprise/WSDL and light-weight/RESTful/WebAPI services, cloud computing middleware-- semantic approaches to leveraging multiple clouds)

Semantic Web and Semantic Applications (domain model enhanced NLP and statistical techniques for information extraction, mining social content such as Wikipedia, spatio-temporal-thematic analytics, knowledge discovery and intermediation, multi-ontology and complex relations, semantic search/directory/personalization/analytics, Relationship Web, etc.)

Key application domains: biomedicine and human effectiveness, health care informatics, defense and intelligence (including sensor), social computing

Past

Information Integration; Pan-Web and Enterprise Information Interoperability (incl. Federated Information Systems, Multi-agent and information brokering architectures, ontology and metadata management)

Web and Business Processes (Work Coordination and Collaboration Systems, Dynamic Trading Processes in E-Commerce, Multi-organization Business Processes and Workflow Management, Web-based Asynchronous and Synchronous Collaboration)

Management of Rich Media Content and Information Sources; Digital Libraries

Significant collaborations and applications in Bioinformatics, GIS, Healthcare, Financial, and National Security domains.

Education

PhD   1985   Ohio State University Computer & Information Science
MS   1983   Ohio State University Computer & Information Science
BE   1981   Birla Institute of Tech. & Science   Electrical & Electronics Engineering
(Hons) Pilani, India

Academic Positions/Appointments

2009 –	Director, Knowledge-enabled Human Center Computing - a Wright State of University Center of Excellence; Faculty, Biomedical Sciences (BMS) PhD program.
Jan 2007 –	LexisNexis Ohio Eminent Scholar, Wright State University, Dayton, OH Professor, Computer Science & Engineering. Director and Founder, Kno.e.sis Center
2001-2007	Member/Professor, Faculty of Engineering, University of Georgia
1994 – Dec 2006	Director, Large Scale Distributed Information Systems (LSDIS) Lab, Athens, GA
1998 – Dec 2006	Professor, Department of Computer Science, University of Georgia, Athens, GA (on partial sabbatical during 2000 and 2001). Also, Member, Institute of Bioinformatics, UGA (2004–2006), Member, Biomedical & Health Sciences Institute, UGA (2005–2006), and Member/Professor, Faculty of Engineering, University of Georgia (2001–2006)
1994 – 1998	Associate Professor, Department of Computer Science, University of Georgia, Athens, GA
May 93 – June 93	Visiting Faculty, Institute of Information Systems, ETH (Swiss Federal Institute of Technology), Zurich, Switzerland
1983 – 1984	Graduate Research Associate, Computer & Information Science Dept., Ohio State University
1981 – 1983	Graduate Teaching Associate, Computer & Information Science Dept., Ohio State University

Entrepreneurship and Industry Employment

Aug 2002 – May 2006	Co-founder/CTO (part time) Semagix, Inc.
Jun 2001 – Aug 2002	Co-founder/CTO/Exec.VP/, Voquette, Inc. (Merger led to Semagix)
Aug 1999 – May 2001	Founder, Chairman and CEO, Taalee, Inc. (Acquired by Voquette)
1997 – Present	Founder and President, Infocosm Inc., S-Corporation, Georgia
1989 – 1994	Member of Technical Staff, Systems Principles & Research, Morristown, NJ and Computer Systems Integration, Bell Communications Research, Bell Communications Research (Bellcore) Inc., Piscataway, NJ
1987 – 1989	Staff Research Scientist, UNISYS West Coast Research Center (formerly SDC), Santa Monica, CA
1985 – 1987	Principal Research Scientist, Computer Sciences Center, Honeywell, Minneapolis, MN

Speeches and Talks

Keynote and Plenary Invited Talks at International Conferences/Workshops and Significant National/International Meetings

1. "Computing for Human Experience: Semantics empowered Sensors, Services, and Social Computing on Ubiquitous Web," Fourth International Conference on Digital Information Management (ICDIM'09), Ann Arbor, Michigan, November 1-4, 2009.

2. "Computing for Human Experience: Semantics empowered Sensors, Services, and Social Computing on ubiquitous Web," 4th European Conference on Smart Sensing and Context (EuroSSC 2009), Guildford, United Kingdom, September 16-18, 2009.
3. "Computing for Human Experience: Sensing, Perception, Semantics, Social Computing, Web 3.0, and beyond," 20th Midwest Artificial Intelligence and Cognitive Science Conference (MAICS2 2009), Fort Wayne, Indiana, April 18-19, 2009.
4. "Computing for Human Experience: Sensors, Perception, Semantics, Web N.0, and Beyond," at the 3rd Asian Semantic Web Conference (ASWC 2008), Bangkok, Thailand, February 2-5, 2009.
5. "Relationship Web: Trailblazing, Analytics and Computing for Human Experience," 27th International Conference on Conceptual Modeling (ER 2008), Barcelona, Spain, October 20-23, 2008.
6. "Semantics to Empower Services Science: Using Semantics at Middleware, Web Services and Business Levels," CSIRO, Canberra, Australia, August 11, 2008.
7. "Empowering Translational Research using Semantic Web Technologies," Ohio Collaborative Conference on Bioinformatics (OCCBIO), Toledo, OH June 2-4, 2008.
8. "Semantic Web for Health Care and Biomedical Informatics," Keynote, NSF Biomedical Informatics Workshop: Expanding Secondary Use of Health Data, December 4–5, 2007.
9. "Semantic Web techniques empower perception and comprehension in Cyber Situational Awareness? Invited talk, ARO Cyber Situational Awareness Workshop, Fairfax, VA, November 14–15, 2007.
10. "Realizing the Relationship Web: Morphing information access on the Web from today's document- and entity-centric paradigm to a relationship-centric paradigm," Keynote address, ACM Multimedia 2007 International Workshop: The Many Faces of Multimedia Semantics, Augsburg, Germany, September 28, 2007.
11. "Semantics to Empower Services Science: Using Semantics at Middleware, Web Services and Business Levels," Keynote address, 9th International Conference on Enterprise Information Systems (ICEIS2007), Funchal, Portugal, June 12–16, 2007.
12. "Driving Deep Semantics in Middleware and Networks: What, why and how?" Keynote address, Semantic Sensor Networks Workshop, 5th International Semantic Web Conference (ISWC-2006), Athens, GA, November 6, 2006.
13. "{Ontology: Resource} x {Matching : Mapping} x {Schema : Instance} :: Components of the same challenge," Keynote address, International Workshop on Ontology Matching (OM-2006), 5th International Semantic Web Conference (ISWC-2006), Athens, GA, November 5, 2006,
14. "Semantics to energize the full services spectrum: Ontological approach to better exploit services at technical and business levels," Biennial Beta Conference, 2006: Management of Service Operations, Eindhoven, Netherlands, September 14–15, 2006.
15. "Semantic Web applications in Financial Industry, Government, Health Care and Life Sciences," AAAI Spring Symposium, Semantic Web Meets eGovenment, Stanford University, Palo Alto, CA, March 28, 2006.
16. "Semantics Enabled Industrial and Scientific Applications: Research, Technology and Deployed Applications," 1st Online Metadata and Semantic Research Conference, November 21–30, 2005.

17. "Semantics for Scientific Experiments and the Web: the implicit, the formal and the powerful," Featured talk, BISCSE 2005: Forging New Frontiers, Berkeley CA, November 2–6, 2005.

18. "Semantic Web and Semantic Web Services: From Research and Technology to Deployed Applications for Enterprises and Scientific Research," Keynote address, IFIP Working Conference on Industrial Applications of Semantic Web (IASW-2005), Jyväskylä, Finland, August 25–27, 2005.

19. "Web Services to Semantic Web Processes: Investigating Synergy between Practice and Research," Keynote address, 1st European Young Researchers Workshop on Service Oriented Computing, Leicester, UK, April 21, 2005. (Abstract, Presentation)

20. "Semantics Powered Bioinformatics: Semantic Search, Integration, Processes and Analytics," Plenary invited talk at 2003 BISC FLINT-CIBI International Joint Workshop on Soft Computing for Internet and Bioinformatics, Berkeley, CA, December 16, 2003.

21. "What can Semantic do for Bioinformatics," Keynote address, Russian Conference on Digital Libraries (RCDL 2003), Saint Petersburg, Russia, October 29, 2003.

22. "Semantics for Bioinformatics: What, Why and How of Search, Integration and Analysis," Semantic Web Technologies for Science and Engineering Workshop, Sanibel Island, FL, October 20, 2003.

23. "Semantic Web in Action (also known as Ontology-driven information search, integration and analysis)," Net Object Days 2003 and MATES03, Erfurt, Germany, September 23, 2003.

24. "From Semantic Search to Analytics and Discovery on heterogeneous content: Changing focus from Documents and Entities to Relationships," Keynote address, 1st International Workshop on Semantic Web and Databases, September 8, 2003.

25. "Semantic Web Process Lifecycle: Role of Semantics in Annotation, Discovery, Composition and Orchestration," Invited talk, WWW 2003 Workshop on E-Services and the Semantic Web, Budapest, Hungary, May 20, 2003.

26. "Ontology Driven Information Systems in Action (Capturing and Applying Existing Knowledge to Semantic Applications)," Invited talk, Sharing the Knowledge- International CIDOC CRM Symposium, Washington, DC, March 26–27, 2003,

27. "Relationships at the Heart of Semantic Web: Modeling, Discovering, Validating and Exploiting Complex Semantic Relationship," Keynote address, 29th Annual Conference on Current Trends in Theory and Practice of Informatics (SOFSEM 2002), Czech Republic, November 25, 2002.

28. "Semantic Content Management for Enterprises and National Security," Keynote address at invited session: Content and Semantic-based Information Retrieval, 6th World Multi-conference on Systemics, Cybernetics, and Informatics (SCI 2002), Orlando, FL, July 14, 2002.

29. "Content Management, Metadata, and Semantic Web," Inaugural keynote address, NetObjectDAYS, Erfurt, Germany, September 11, 2001.

30. "Semantic Web and Information Brokering: Opportunities, Early Commercialization, and Challenges," Keynote address, Workshop on Semantic Web: Models, Architectures and Management, Lisbon, September 21, 2000

31. "Information Brokering in Digital Media," Keynote address, 3rd International Workshop on Cooperative Information Agents CIA-99, Uppsala, Sweden, July 31–August 2, 1999.

32. "Semantic Interoperability and Information Brokering in Global Information Systems," Keynote address, 3rd IEEE Metadata Conference, Bethesda, MD, April 6–7, 1999.
33. "Workflow Process Management and Enterprise Application Integration in Healthcare," Keynote address, IEEE Workshop on Enterprise Networking and Computing in Healthcare Industry (Healthcom 99), Sydney Australia, January 11, 1999.
34. "Real-World Relevant Research Challenges in Workflow," Keynote address, EDBT Workshop on Workflow Management Systems, Valencia, Spain, March 27–28, 1998.
35. "Pragmatics Driven Research Issues in Data and Process Integrity in Enterprises," Keynote address, IFIP WG 11.5 Conference on Integrity and Control in Information Systems, Zurich, Switzerland, December 4–5, 1997.
36. "Search, Access, Analysis and Fusion of Heterogeneous Information Sources: The InfoQuilt Approach," Keynote address, International Conference on Interoperating Geographical Information Systems (Interop '97), Santa Barbara, CA, December 3, 1997.
37. "From Contemporary Workflow Process Automation to Adaptive and Dynamic Work Activity Coordination and Collaboration," Keynote address, Workshop on Workflows in Scientific and Engineering Applications, Toulouse, France, September 1997.
38. "Schemata for Interoperable Database Systems" and "So Far (Schematically) yet So Near (Semantically)," Keynote address, IFIP DS-5 Conference on Semantics of Interoperable Database Systems, Lorne, Australia, November 1992.

Conference and Workshop Invited Talks

1. "Empowering Translational Research using Semantic Web Technologies," Ohio Collaborative Conference on Bioinformatics (OCCBIO), Toledo, OH, June 2–4, 2008.
2. Semantic Sensor Web," Sensor Web Enablement (SWE) Working Group of the Open Geospatial Consortium (OGC), St. Louis, MO, March 26, 2008.
3. "Semantic Sensor Web," Special SICoP Conference, Building Semantic Interoperability Solutions for Information Sharing and Integration, Falls Church, VA, February 5, 2008.
4. "Strategic Importance of Higher Education and Research in Positioning Gujarat for Global Competitiveness," plenary invited talk, Global Gujarat & Its Diaspora, Hemchandracharya North Gujarat University, Patan, India, January 17–19, 2008.
5. "Trailblazing, Complex Hypothesis Evaluation, Abductive Inference and Semantic Web— exploring possible synergy," ARO Workshop on Abductive Reasoning: Evidence and Intelligent Systems, Adelphi, MD, August 23–24, 2007.
6. "Relationship Web: Realizing the Memex vision with the help of Semantic Web," SemGrail 2007, Redmond, WA, June 21–22, 2007.
7. "Semantic Annotations for WSDL," with Jacek Kopecky (DERI Innsbruck), W3C Track at the 16th World Wide Web Conference (WWW2007), Banff, Canada, May 10, 2007.
8. "Semantic empowerment of Life Science Applications," Microsoft eScience Workshop, Cincinnati Children Hospital & Medical Center, October 14, 2006.
9. "Semantic empowerment of Health Care and Life Science Applications," W3C track at the 15th International World Wide Web Conference (WWW2006), Edinburgh, Scotland, May 26, 2006. (Presentation)
10. "Semantic Web applications in Financial Industry, Government, Health care and Life Sciences," Taxonomies and Semantic Technologies for S&T Analysis Conference, The MITRE Corporation, March 17, 2006.

11. "Active Semantic Electronic Patient Records," Semantic Technology Conference, San Jose, CA, March 7, 2006.
12. "Autonomic Web Process," vision paper presented at the 3rd International Conference on Service Oriented Computing, Amsterdam, Netherlands, December 13, 2005.
13. "Semantic Technology in the Real World: Experiences and Lessons based on Enterprise Semantic Applications," Semantic Technology Conference 2005, San Francisco, CA, March 8, 2005.
14. "Semantic Web Technology in Support of Bioinformatics for Glycan Expression," W3C Workshop on Semantic Web for Life Sciences, Cambridge, MA, October 28, 2004.
15. "From Semantic Search & Integration to Analytics," KMWorld 2004, Santa Clara, CA, October 26–28, 2004.
16. "Semantic Technology in the Real World: Experiences and Lessons based on Commercialization of Academic Research & Industry Applications," Dagstuhl Seminar on Semantic Interoperability and Integration, Dagstuhl, Germany, September 21, 2004.
17. "Semantic Web Technology Ontology Testbed," Ontology in Action Workshop, Banff, Canada, June 21, 2004.
18. "Semantic Visualization: Interfaces for exploring and exploiting ontology, knowledgebase, heterogeneous content and complex relationships, NASA Virtual Iron Bird Workshop, Monterey, CA, April 2, 2004.
19. "Ontology-driven Integration and Analysis for Semantic Applications in Business Intelligence and National Security," Ontology and Semantic Web Technical Exchange Meeting, MITRE Corporation, McLean, VA, June 12–13, 2003.
20. "Database and Information Systems Research for Semantic Web and Enterprises: Review of the Amicalola Workshop," and "Snapshot of the Semantic Web Commercial State of the Art," Invited talk, Science on the Semantic Web, Building a New Generation of Environmental Information Systems, Rutgers University, Newark, NJ, October 24, 2002.
21. "Process Composition: Quality of Service Specification Semantics, and Adaptation," Invited talk, EI3-IC workshop on Interoperability of Business Processes and Enterprise Models, Gaithersburg, MD, February 6–8, 2002.
22. "Semantic Content Annotation and Applications: Semantic Web Now and Challenges Ahead," Invited talk, 2001 IRC International Conference on Internet Information Retrieval, Seoul, South Korea, October 29, 2001.
23. "On Supporting Complex Relationships and Knowledge Discovery in the Semantic Web," Plenary invited talk, 2001 BISC International Workshop on Fuzzy Logic and the Internet: New Directions in Enhancing the Power of the Internet, Berkeley, CA, August 16, 2001.
24. "Information Scapes: A Paradigm for Knowledge Discovery in Semantic Web," Inaugural session invited talk, IJCAI-2001 Workshop on Knowledge Discovery from Distributed, Dynamic, Heterogeneous, Autonomous Data and Knowledge, Sources, Seattle, WA, August 6, 2001.
25. "Workflow and Process Automation in Information Systems: A Proposal for a Multidisciplinary Research agenda and Follow-up," Invited talk, NSF Invitational Workshop on Distributed Information, Computation, and Process Management for Scientific and Engineering Environments, Virginia, May 15–16, 1998.
26. "From Process Modeling to Workflow Automation," Invited talk, National Institute of Standards and Technology sponsored Process Information Technology Workshop, Gaithersburg, MD, March 13, 1998.

27. "Workflow Applications to Research Agenda: Scalable and Dynamic Work Coordination and Collaboration Systems," Invited talk (with K. Kochut), NATO Workshop on Advances in Workflow Management Systems and Interoperability, Istanbul, Turkey, August 1997.
28. "Overview of Workflow Research and Technology," Invited talk, DARPA Collective Actions Tools Workshop, March 1996.
29. "From Data Dirt Roads to Infocosm," Inaugural session invited talk, 7th International Conference on Management of Data, Pune, India, December 1995.

Invited and Colloquia Talks (Partial List, Not Including Conference and Workshop Paper Presentations/Talks)

1. "Computing For Human Experience," Department of Computer Science (DSIC) of the Technical University of Valencia (UPV), Valencia, Spain, October 24, 2008.
2. "Globalization and Knowledge-intensive Economies," AINA/World Gujarat Conference, Edison, NJ, Aug 29-31, 2008
3. "Semantic Web: Promising Technologies, Current Applications and Research Directions," Macquarie University, Sydney, August 14, 2008.
4. "Semantics to Empower Services Science: Using Semantics at Middleware, Web Services and Business Levels", School of Computer Science & Engineering, University of New South Wales, Australia, August 13, 2008.
5. "Semantics to Empower Services Science: Using Semantics at Middleware, Web Services and Business Levels," CSIRO, Canberra, Australia, August 11, 2008.
6. "Semantic Sensor Web," ARC Research Network on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP), Melbourne, Australia, August 1, 2008.
7. "Semantic Web: Promising Technologies, Current Applications and Research Directions," School of Computer Science, University of Adelaide, Australia, July 23, 2008.
8. "Relationship Web: Spinning the Semantic Web from Trailblazing to Complex Hypothesis Evaluation," Cyber Center Lecture Series, Discovery Park, Purdue University, Lafayette, IN, August 16, 2007.
9. "Relationship Web: Spinning the Semantic Web from Trailblazing to Complex Hypothesis Evaluation," presentation, College of Engineering, University of Illinois at Chicago, Chicago, IL, 2007.
10. "Semantic empowerment of Life Science Applications," Cincinnati Children Hospital and Medical Center, Cincinnati, OH, October 14, 2006.
11. "Career Options, Changing Trends and Emerging Areas in Computer Science and related fields," Birla Institute of Technology & Science, Pilani, India, September 30, 2006.
12. "Semantics to energize the full Services Spectrum," IBM Indian Research Lab, New Delhi, India, July 27, 2006.
13. "Semantics to energize the full Services Spectrum," DA-IICT, Ahmedabad, India, July 25, 2006.
14. "METEOR-S: Using Semantics to energize Services & Processes," DERI, Galway, Ireland, June 19, 2006.
15. "Semantic Web applications in Financial Industry, Government, Health care and Life Sciences, " Accenture Technology Labs, Palo Alto, CA, March 29, 2006.

16. "Semantic Web applications in Financial Industry, Government, Health care and Life Sciences," and "METEOR-S: Investigations on semantics empowerment of processes," Hewlett–Packard Labs, Palo Alto, CA, March 6, 2006.
17. "Web Service Semantics-WSDL-S," W3C Advisory Committee Meeting, Montreal, Canada, November 30, 2005.
18. "What can Semantics do for Bioinformatics," Special Seminar, Institute of Bioinformatics, University of Georgia, September 22, 2005.
19. "Semantic Web Applications in Enterprises and Scientific Research," W3C Advisory Committee Meeting, Cannes-Mandelieu, France, June 7, 2005.
20. "Semantic Web: Technology & Applications in Search, Digital Media/Content Management, Science and National/Homeland Security," Digimarc Corp., Portland, OR, May 3, 2005.
21. "Semantics in the Semantic Web–The implicit, the formal and the powerful (with a few examples from Glycomics)," Berkeley Initiative in Soft Computing (BISC) Seminar, University of California, Berkeley, October 26, 2004.
22. "Web Services to Semantic Web Process," Tsinghua University, Beijing, China, September 16, 2004.
23. "Semantic Web Technology in Action: From Search and Integration to Analytics," Shanghai Jiao Tong University, Shanghai, China, September 15, 2004.
24. "Semantic Web Technology Evaluation Ontology (SWETO): A test bed for evaluating tools and benchmarking semantic applications," WWW2004 Developers' Day, New York, NY, May 22, 2004.
25. "Semantic Web in Action," NASA Ames Research Center, Menlo Park, CA, April 1, 2004.
26. "Semantic Web in Action," IBM Almaden Research Center, January 13, 2004.
27. "Semantic Discovery and its applications to Homeland Defense and Bioinformatics," Georgia Technology Institute, Atlanta, GA, November 24, 2003.
28. "Ontology-based Information Systems: From Research to Reality," Boeing PhantomWorks, Seattle, WA, September 17, 2003.
29. "Semantic Web Process Lifecycle: Role of Semantics in Annotation, Discovery, Composition and Orchestration," IBM T.J. Watson Research Center, Hawthorne, NY, July 10, 2003.
30. "Ontology Driven Information Systems in Action: Capturing and Applying Existing Knowledge to Semantic Applications," University of Namur, Belgium, June 24, 2003.
31. "Semantic Web Applications and Next Generation Content Management," Hongik University, Seoul, Korea, October 30, 2001.
32. "Web, Semantics, OIL and FUEL: Semantic Interoperability and learning on the Web," Stanford University Database Seminar, October 20, 2000.
33. "Mapping your job search process while balancing Career Growth, Pay and Security," ACM Student Chapter 1st Annual ACM Dinner, Athens, GA, April 5, 2001.
34. "Changing Focus on Interoperability in Global Information Systems," Technical Speaker Series, MITRE, December 3, 1998.
35. "Enabling Virtual Teams and Infocosm," Bell Communications Research, December 2, 1998.
36. "METEOR System for Distributed, Multi-paradigm Workflow Management," invited technical presentation, CERN, Geneva, Switzerland, March 31, 1998.

37. InfoHarness and InfoQuilt: Steps towards enabling Infocosm through Semantic Interoperability," colloquium talk, University of California, Santa Barbara, March 5, 1998.
38. "InfoHarness and InfoQuilt Projects," CNN Interactive, Atlanta, GA, April 21, 1997.
39. "Information (Super) Highway: New Opportunities for Global Competitive Advantage for Developing Countries," H. M. College, Ahmedabad, India, September 12, 1996.
40. "Information (Super) Highway: New Opportunities for Global Competitive Advantage for Developing Countries," IEEE Computer Society, Gujarat, India, September 11, 1996.
41. "Media–independent Correlation and Access of Heterogeneous Digital Information," Indian Space Research Organization, Ahmedabad, India, September 9, 1996.
42. "Adapt/X Harness System for Managing Heterogeneous Information in Internet and Intranets," Conference on Very Large Databases, Bombay, India, September 4, 1996.
43. "Transactional Workflow Management: Research, Technology and Applications," Indian Institute of Management, Ahmedabad, India, December 1994.
44. "Issues in Interoperable Information Systems," Indian Institute of Technology, Bombay, India, December 29, 1994.
45. "Multi-Database Systems: Research and Reality," ACM Lecture Series Talk, Univ. of Michigan, November 1994.
46. "Transactional Workflow Systems," ACM Lecture Series Talk, Wayne State University, Detroit, MI, November 17, 1994.
47. "Multi-Database Systems: Research and Reality," ACM Lecture Series Talk, ACM Professional Chapter, Ann Arbor, MI, November 17, 1994.
48. "Multi-system Applications and Transactional Workflows," George Mason University, Fairfax, VA, May 1994.
49. "Multisystem Applications and Transactional Workflows," University of California, Riverside, April 1994.
50. "Transactional Workflow Management: Research, Technology and Applications," State University of New York, Albany, NY, March 1994.
51. "Transactional Workflow Management: Research and Applications," Bell Labs, Murray Hill, NJ, July 1993.
52. "Transactional Workflow Management: Research and Applications," Matsushita Information Technology Laboratory, Princeton, NJ, June 1993.
53. "Management of Interdependent Data: Specification, Enforcement and Applications," University of Zurich, Zurich, Switzerland, May 1993.
54. "Schematic and Semantic Heterogeneity," ETH (Swiss Federal Institute of Technology), Zurich, Swi tzerland, May 1993.
55. "Multisystem Workflow Applications," University of Munich, April 1993.
56. "Management of Interdependent Data: Specification, Enforcement and Applications," George Mason University, Fairfax, VA, March 1993.
57. "BERDI: A Schema Design, Analysis and Integration Toolkit," Hewlett Packard Labs, February 1993.
58. "The CHIME Project," Microelectronics and Computer Corporation, Austin, TX, January 1993.
59. "Multidatabase Systems: Research and Reality," Queensland University of Technology, Brisbane, Australia, November 1992.
60. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," La Trobe University, Bandoora, Australia, November 1992.

61. "Management of Interdependent Data: Specification, Enforcement and Applications," ETH (Swiss Federal Institute of Technology), Zurich, Switzerland, October 1992.
62. "Management of Interdependent Data," IBM-European Networking Center and Scientific Research Heidelberg, Heidelberg, Germany, October 1992.
63. "Transactional Workflow Management: Specification and Enforcement," IPSI–GMD, Darmstadt, Germany, October 1992.
64. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," University of Ulm, October 1992.
65. "The BrAID System for Integrating AI and DBMS Systems," Fern Universitat, Hagen, Germany, October 1992.
66. "Multidatabase Systems: Research and Reality," Simon Fraser University, Vancouver, Canada, August 1992.
67. "Management of Interdependent Data in Multidatabase Systems," U of Maryland–BC, May 1992.
68. "Management of Interdependent Data," IPSI–GMD, Darmstadt, Germany, March 1992.
69. "Semantics Issues in Schema Integration," IPSI–GMD, Darmstadt, Germany, March 1992.
70. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," CRAI, Italy, March 1992.
71. "Data Consistency and Work Flow Management in Multidatabase Systems," VTT (National Research Center of Finland), Helsinki, Finland, March 1992.
72. "Management of Interdependent Data in Multidatabase Systems," Matsushita Information Technology Laboratory, Princeton, NJ, February 1992.
73. "Management of Interdependent Data: A Case Study at Bellcore," Microelectronics and Computer Corporation, Austin, TX, January 1992.
74. "Research Issues in Schema Integration and View Update," University of Houston, TX, October 1991.
75. "Federated Database Systems," Boeing, Seattle, WA, October 1991.
76. "Federated Database Systems," ACM professional chapters at Piscataway, NJ, April 1991.
77. "Schematic and Semantic Issues in Schema Integration," New Jersey Institute of Technology, Newark, March 1991.
78. "Federated Database Systems: Architecture and Alternatives," New Jersey Institute of Technology, Newark, January 1991.
79. "Integrating Heterogeneous Distributed Databases: Requirements, Concepts and Solutions," New Jersey Institute of Technology, Newark, October 1990.
80. "Research Issues in Schema Integration and View Update," Purdue University, West Lafayette, IN, October 1990.
81. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," IBM-European Networking Center and Scientific Research Heidelberg, Germany, August 1990.
82. "View Update Using Knowledge at View Definition and View Update Time," IPSI-GMD, Darmstadt, Germany, August 1990.
83. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," Fern Universitat, Hagen, Germany, August 1990.
84. "Federated Database Systems," Bell Communications Research, Red Bank, NJ, February 1990.

85. "Integrating Heterogeneous Distributed Databases: Requirements, Concepts and Solutions," University of California, Los Angeles, October 1988.
86. "View Update Using Knowledge at View Definition and View Update Time," Fern Universitat, Hagen, Germany, March 1988.
87. "View Update Using Knowledge at View Definition and View Update Time," INRIA, France, March 1988.
88. "View Update Using Knowledge at View Definition and View Update Time," Unisys West Coast Research Center, April 1987.
89. "Integrating Heterogeneous Distributed Databases," University of Minnesota, September 1986.

Chief Guest/Speaker at Special Events

1. "Semantic Web: Promising Technologies and Current Applications," Invited talk at the Reed Elsevier EPIC Conference, Toronto, Canada, October 9, 2007.
2. "Semantic Web applications in Industry, Government, Health Care and Life Sciences," Invited talk at meeting of the Greater Dayton IT Alliance, Dayton, OH, April 18, 2007.
3. "Semantic Web applications in Industry, Government, Health Care and Life Sciences," Keynote address at the daytaOhio-organized conference "From Research to Reality," Wright State University, Dayton, OH, October 27, 2006.
4. "Semantics to energize the full Services Spectrum: Ontological approach to better exploit services at technical and business levels," Talk at the inauguration invitational event for Research School on Services-oriented Systems Engineering, Hasso-Plattner-Institute, Potsdam, Germany, June 22, 2006.
5. "Realizing Semantic Information Brokering and Semantic Web," Invited talk, Perspectives on Agents: Theories and Technologies Seminar Series, Universita degli Studi di Trento, Trento, Italy, April 27, 2000.
6. "An Overview of Workflow Management: From Process Modeling to Workflow Automation," CERN-wide Computing Colloquium, CERN, Geneva, Switzerland, March 31, 1998.
7. "Workflow Management: Technology, Experiences and Research," special university-industry seminar, Universidade Nove de Lisboa, Lisbon, Portugal, March 25, 1998.
8. "Information (Super) Highway: New Opportunities for Global Competitive Advantage for Developing Countries," city-wide talk organized by Ahmedabad Management Association, India, August 26, 1996.
9. "Multidatabase Systems: Research and Reality," Invited guest speaker at the 1st Symposium of the Tsukuba Advanced Research Alliance (TARA), Tsukuba, Japan, March 4, 1995.
10. "Information By-Ways, Lanes, and Superhighway," citywide talk organized by the Ahmedabad Management Association, Ahmedabad, India, December 1994.
11. Special guest and speaker at the UBILAB Workshop on Data Management Scenarios at Union Bank of Switzerland, Zurich, April 28, 1993.
12. Primary speaker for the Workshop on Federated Database Systems (for the members of CRAI consortium), CRAI, Render, Italy, March 23–24, 1992. Presented and led discussions for 21 hours.

Tutorial Presentations at International Conferences

1. "Mobile Semantic Computing," (with Karthik Gomadam, Anupam Joshi) 2nd International Conference on Semantic Computing (ICSC2008), Santa Clara, CA, August 4–7, 2008.
2. "Text Analytics for Semantic Computing—The good, the bad and the ugly," (with Meenakshi Nagarajan, Cartic Ramakrishnan), 2nd International Conference on Semantic Computing (ICSC2008), Santa Clara, CA, August 4–7, 2008.
3. "Using SAWSDL for Semantic Service Interoperability," (with Kunal Verma), Semantic Technology Conference, San Jose, CA, May 20–24, 2007.
4. "Semantic Web: Technologies and Applications for the Real-World" (with Susie Stephens), 16th World Wide Web Conference (WWW2007), Banff, Canada, May 8–12, 2007.
5. "WSDL–S: Specification, Tools, Use Cases and Applications" (with Kunal Verma and Karthik Gomadam), Semantic Technology Conference, San Jose, CA, March 7, 2006.
6. "Lifecycle of Semantic Web Processes" (with Jorge Cardoso), 17th Conference on Advanced Information Systems Engineering (CAiSE'05), Porto, Portugal, June 13, 2005.
7. "Service Oriented Architectures and Semantic Web Processes" (with Francisco Curbera and Kunal Verma), 2004 IEEE International Conference on Web Services (ICWS 2004), San Diego, CA, July 7, 2004.
8. "Service Oriented Architectures and Semantic Web Processes" (with Jorge Cardoso and Franscisco Curbera), 13th International World Wide Web Conference, New York, NY, May 17, 2004.
9. "Semantic Web Processes: Semantics Enabled Annotation, Discovery, Composition and Orchestration of Web Scale Processes" (with Jorge Cardoso), 4th International Conference on Web Information Systems Engineering (WISE 2003), Rome, Italy, December 10–12, 2003. Abstract
10. "Semantic Web Processes: Semantics Enabled Annotation, Discovery, Composition and Orchestration of Web Scale Processes" (with Jorge Cardoso), 4th International Conference on Web Information Systems Engineering (WISE 2003), Rome, Italy, December 10–12, 2003.
11. "Semantic Web Processes" (with Jorge Cardoso), 1st German Conference on Multiagent System Technologies and Net Object Days, Erfurt, Germany, September 22–25, 2003.
12. "Semantic Web Services and Processes: Semantic Composition and Quality of Service" (with Jorge Cardoso and Christoph Bussler), International Federated Conferences: DOA/ODBASE/CooPIS 2002, Irvine, CA, October 28–29, 2002.
13. "Workflow Management: Technology, Experiences and Research" (with J. Miller), 1998 IEEE International Conference on Data Engineering, Orlando, FL, February 1998.
14. "Workflow Automation: Applications, Technology, and Research," 1995 ACM SIGMOD International Conference on Management of Data, San Jose, CA, May 24, 1995, and the International Conference On Information Systems Engineering (CAiSE '95), Finland, June 14, 1995.
15. "Multidatabase Interoperation: Perspective of Researchers & Practitioners," 11th International Conference on Data Engineering, Taiwan, March 1995.
16. "Database and Application Interoperability in Industry: Requirements, Technology, Research Issues and Case Studies," 6th International Conference on Management of Data, Bangalore, India, December 1994.
17. "Interoperability in Multidatabase Systems" (with Dennis McLeod), 20th International Conference on Very Large Data Bases, Chile, September 1994.

18. "Interoperability in Multidatabase Systems," course offered by ETH (Swiss Federal Institute of Technology), Zurich, Switzerland, April 1993.
19. "Multidatabase Systems: Technology and Applications" (with M. Rusinkiewicz), 3rd International Conference on Data Engineering, Vienna, Austria, April 1993.
20. "Issues and Applications Support in Interoperable Database Systems," IFIP DS-5 Conference on Semantics of Interoperable Database Systems, Melbourne, Australia, November 1992.
21. "Multidatabase Applications: Semantics and Systems Issues" (with M. Rusinkiewicz), 18th International Conference on Very Large Data Bases (VLDB 92), Vancouver, Canada, 1992.
22. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," 17th VLDB, Barcelona, Spain, September 1991, and at the Workshop on Federated Databases, Rende, Italy, March 1992.
23. "Heterogeneous Distributed Databases: Issues in Integration," at the ACM SIGMOD Conference, 1989, and the 3rd International Conference on Data Engineering, 1987 and 1990.
24. "Integrating Heterogeneous Distributed Databases: Requirements, Concepts, and Solutions." at the Fall Joint Computer Conference, October 1987, Dallas, TX; also at the International Conference on Databases in Parallel and Distributed System (with A. Elmagarmid), 1988, and at the 6th International Conference on Data Engineering, 1990.
25. "Issues in Managing Interdependent Data," at the Workshop on Management of Interdependent Data (with A. Elmagarmid and M. Rusinkiewicz), 1990.

Panel Presentations at Conferences and Workshops

1. "Context is highly contextual!," 4th European Conference on Smart Sensing & Context 2009, Surrey, UK, September 18, 2009.
2. "Relationship Web: Spinning the Web from Trailblazing to Semantic Analytics," 27th International Conference on Conceptual Modeling (ER 2008), Barcelona, Spain, October 20-23, 2008.
3. "Do the current Semantic Web standards and technologies benefit Heath Care and Life Science research today?" 1st International Workshop on Health Care and Life Sciences Data Integration for the Semantic Web (HCLS-DI2007), 16th International World Wide Web Conference (WWW2007), Banff, Canada, May 8, 2007. (Panelist)
4. "Semantic Web and Database Conferences," 3rd International Workshop on Semantic Web and Databases, Atlanta, GA, April 8, 2006.
5. "Strengths & Weaknesses of Semantic Technology Solutions: View from the Vendor and Research Community," Taxonomies and Semantic Technologies for S&T Analysis Conference, MITRE Corporation, March 17, 2006.
6. "Semantic Web Services: Past, Present, and Future," International Workshop in Dynamic Web Processes (DWP, 2005), Amsterdam, Netherlands, December 12, 2005.
7. "FLINT and Semantic Web," BISCSE 2005: Forging New Frontiers, Berkeley CA, November 2–6, 2005.
8. "Semantic Web Service Ontology Standard," Ontology Conference Call, October 20, 2005.
9. "Computing for Human Experience and Wellness," Views from the Labs panel at Emerging Ventures Conference, Boston, MA, October 11, 2005.

10. "Future of Semantics," Semantic Technology Conference 2005, San Francisco, CA, March 8, 2005.
11. "Get Ready for Semantic Web," KMWorld/Intranets 2004, Santa Clara, CA, October 26, 2004.
12. "The Role of Web Services in Semantic Interoperability and Integration," Dagstuhl Seminar on Semantic Interoperability and Integration, Dagstuhl, Germany, September 20, 2004. (Panel Chair)
13. "Web Service Choreography," panel at WWW2003, Budapest, Hungary, May 22, 2003. (Panel Chair)
14. "Semantic (Web) Technology in Action—today," panel: "The Semantic Web–Scientific American article considered harmful?" WWW2003, Budapest, May 21, 2003.
15. "'Semantics' in the Semantic Web: Is the Domain/Discipline Important?" ODBASE'02, Irvine, CA, October 29, 2002.
16. "Summary of NSF Databases and the Semantic Web Workshop," Science on the Semantic Web: Building a New Generation of Environmental Information Systems, Newark, NJ, October 24, 2002.
17. "Research Directions for the Semantic Web," 3rd OntoWeb Meeting, Sardinia, Italy, June 13, 2002.
18. "User Experience of Enterprise Semantic Content Management," Symposium on the User Experience of Business Intelligence & Knowledge Management, IBM Almaden Research Center, San Jose, CA, March 18, 2002.
19. "Semantic Web—Rehash or Research Goldmine," 6th International Conference on Cooperative Information Systems (CoopIS 2001), Trento, Italy, September 6, 2001. (Panel Chair)
20. "Semantic Web—The Road Ahead," 2nd International Workshop on the Semantic Web (SemWeb'2001) at WWW10, Hong Kong, May 1, 2001.
21. "Creating Searchable Audio Video Web Sites," Streaming Media West 2000, San Jose, CA, December 14, 2000.
22. "Impact of Broadband," Internet Entrepreneur Conference, sponsored by SiliconIndia, Atlanta, GA, May 8, 2000. (Panel Chair)
23. "Future Research in Semantics of Multimedia Systems," 8th IFIP 2.6 Working Conference on Database Semantics (DS-8), Rotorua, New Zealand, January 4–8, 1999.
24. "Virtual Teams and Infocosm: Challenges for research in cooperative information systems," 3rd Conference on Cooperative Information Systems, New York, NY, August 1998. (Panelist and Co-Chair)
25. "Is Healthcare Ready for Internet? Technology Is!" Annual Meeting of the Healthcare Open Systems and Trials Consortium, Washington, DC, November 1997.
26. "Cooperative Multiagent Systems for the Web," 2nd IFCIS International Conference on Cooperative Information Systems, Kiawah Island, SC, June 1997. (Panel Chair)
27. "Active Databases and Agents in Cooperative Information Systems," 2nd IFCIS International Conference on Cooperative Information Systems, Kiawah Island, SC, June 1997. (Panelist)
28. "World Wide What?" 4th International Conference on Parallel and Distributed Information Systems, Miami, FL, December 20, 1996. (Panelist)

29. "What Can Database Contribute to Multidisciplinary Research in Work Activities Coordination," International Workshop on Advanced Models and Architectures, Goa, India, September 1, 1996. (Panel Chair)
30. "Database Research in Workflow Management Systems, Do We Have Anything to Contribute?" International Conference on Cooperative Information Systems (CoopIS'96), June 20, 1996. (Panelist)
31. "How Do We Meet the Challenges of the Global Computing Revolution," International Conference on Cooperative Information Systems (CoopIS'96), June 21, 1996. (Panelist, Plenary session panel)
32. "Data Semantics: What, Where and How," 6th IFIP TC-2 Working Conference on Data Semantics (DS-6), Stone Mountain, Georgia, June 1995. (Panel Chair) (see Section 3a, no. 7)
33. "Information Resource Discovery: A Torch in the Deep Darkness of the Information Superhighway?" 11th International Conference on Data Engineering, Taiwan, March 1995. (Panel Chair)
34. "Where are Distributed Databases headed," 6th International Conference on Management of Data, Bangalore, India, December 1994. (Panelist)
35. "Challenges in Global Information Systems," 20th International Conference on Very Large Data Bases, Chile, September 1994. (Panelist)
36. "Why do we need Extended Transaction Models?" 16th IEEE-CS Computer Software & Applications Conference (COMPSAC92), September 1992. (Panelist)
37. "Dealing with Heterogeneous Databases: Is the Research on Right Track?" 2nd International Conference on Systems Integration, Morristown, PA, June 1992. (Panel Chair)
38. "Key Information Management Issues in the Real World," US West-NSF-DARPA Workshop on Heterogeneous Databases and Semantic Interoperability, Boulder, CO, February 1992. (Panelist, Final plenary session panel)
39. "Cooperative Database Design," 17th International Conference on Very Large Data Bases, Barcelona, Spain, September 1991. (Panelist)
40. "Resolving Semantic Heterogeneity," 6th International Conference on Data Engineering, Los Angeles, CA, February 1990. (Panelist)
41. "Does loose AI-DBMS coupling stand a chance?" 5th International Conference on Data Engineering, Los Angeles, CA, February 1989. (Panel Chair)
42. "Can we meaningfully integrate drawing, text, image, and voice with structured data?" 4th International Conference on Data Engineering, Los Angeles, CA, February 1988. (Panel Chair)
43. "When will we have true Heterogeneous Databases," Fall Joint Computer Conference, October 1987. (Panelist)
44. "Improving Concurrency in Distributed Systems," 3rd International Conference on Data Engineering, February 1987. (Session discussant)

Publications

Book Series Editorship

1. Ramesh Jain and Amit Sheth (Eds.), Semantic Web and Beyond: Computing for Human Experience, Springer, started 2005. Currently seven volumes in this series. ISSN 1559-7474

2. Ahmed Elmagamid and Amit Sheth (Eds.), <u>Advances in Database Systems</u>, Springer. Prof. Sheth joined as co-editor in July 2007.

Books Authored or Co-Authored

1. K. Verma, A. Sheth, S. Oundhakar, K. Sivashanmugam, and J. Miller, Allowing the Use of Multiple Ontologies for Discovery of Web Services in Federated Registry Environment, Advances in Web Services Research: Web Services Research and Practices, vol. 2, IGI Global, 2007.
2. V. Kashyap and A. Sheth, Information Brokering across Heterogeneous Digital Data, Kluwer Academic Publishers, August 2000, 248 pp.

Books Edited and Co-Edited

1. Sheth and M. Lytras (Eds), <u>Semantic Web-Based Information Systems: State-of-the-Art Applications</u>, CyberTech Publishers/Idea Group, 2007, 317 pp. ISBN 1-59904-426-9 (hardcover), 1-59904-427-7 (softcover)
2. J. Cardoso and A. Sheth (Eds.), <u>Semantic Web Services, Processes and Applications,</u> Springer, 2006, 405 pp. ISBN 0-38730239-5
3. Elmagarmid, M. Rusinkiewicz, and A. Sheth (Eds.), <u>Management of Heterogeneous Distributed Database Systems</u>, Morgan Kaufmann Publishers, 1999, 400 pp.
4. Sheth and W. Klas (Eds.), Multimedia Data Management: Using Metadata to Integrate and Apply Digital Data, McGraw Hill, 1998, 385 pp.
5. Dogac, L. Kalinechenko, T. Ozsu, and A. Sheth (Eds.), <u>Workflow Management Systems and Interoperability</u>, NATO ASI Series F, vol. 164, Springer, 1998, 524 pp.

Journal Papers (Refereed)

1. Djamal Benslimane, Schahram Dustdar, Amit Sheth, "Services Mashups: The New Generation of Web Applications," IEEE Internet Computing, vol. 12, no. 5, pp. 13-15, Sep/Oct, 2008.
2. Amith Sheth, Karthik Gomadom, Ajith Ranabahu. (Spring 2008). "<u>Semantic Enhanced Services: METEOR-S, SAWSDL, and SA-REST</u>," <u>Bulletin of the Technical Committee on Data Engineering</u>, IEEE Computer Society, 31 (3), pp. 8-12.
3. B.Aleman-Meza, M. Nagarajan, L. Ding, A. Sheth, I.B.Arpinar, A. Joshi, and T.Finin, "<u>Scalable Semantic Analytics on Social Networks for Addressing the Problem of Conflict of Interest Detection</u>,"ACM Transactions on the Web 2 (no. 1), February 2008.
4. M. Nagarajan, K. Verma, A.P. Sheth, and J.A. Miller, "Ontology Driven Data Mediation in Web Services," International Journal of Web Services Research 4 (no.4), October–December 2007.
5. B. Aleman-Meza, F. Hakimpour, I.B. Arpinar, and A.P. Sheth, "SwetoDblp Ontology of Computer Science Publications," Web Semantics 5 (no.3), <u>Online</u>, March 2007, pp. 151-155.
6. B. Arpinar, A. Sheth, C. Ramakrishnan, L. Usery, M. Azami, and M. Kwan, "Geospatial Ontology Development and Semantic Analytics," Transactions in GIS, 10 (no. 4), 2006, pp. 551–576. <u>abstract</u>

7. Sheth, K. Verma, K. Gomadam, "Semantics to energize the full Services Spectrum," special issue: Services Science, Communications of the ACM (CACM) 49 (no. 7), July 2006, pp. 55–61.

8. S.S. Sahoo, C. Thomas, A. Sheth, C. Henson, and W.S. York, "GLYDE–An expressive XML standard for the representation of glycan structure," Carbohydrate Research 340 (no. 18), December 30, 2005, pp. 2802–2807. Epub 2005 Oct 20. PMID: 16242678.

9. Ramakrishnan, W. H. Milnor, M. Perry, and A. Sheth, "Discovering Informative Connection Subgraphs in Multi-Relational Graphs," special issue: Link Mining, SIGKDD Exploration 7 (no. 2), December 2005.

10. V. Kashyap, C. Ramakrishnan, C. Thomas, and A. Sheth, "TaxaMiner: An Experimentation Framework for Automated Taxonomy Bootstrapping," International Journal of Web and Grid Services 1 (no. 2), 2005, pp. 240–266.

11. M. Burstein, C. Bussler, T. Finin, M. Huhns, M. Paolucci, A. Sheth, and S. Williams, "A Semantic Web Services Architecture," IEEE Internet Computing, September–October 2005, pp. 52–61.

12. S. Oundhakar, K. Verma. K. Sivashanugam, A. Sheth, and J. Miller, "Discovery of Web Services in a Multi-Ontology and Federated Registry Environment," International Journal of Web Services Research 2 (no. 3), July–September, 2005, pp.1–32.

13. Aleman-Meza, C. Halaschek-Wiener, I.B. Arpinar, C. Ramakrishnan, and A. Sheth, "Ranking Complex Relationships on the Semantic Web," IEEE Internet Computing 9 (no. 3), May–June 2005, pp. 37–44.

14. K. Verma, K. Sivashanmugam, A. Sheth, A. Patil, S. Oundhakar, and J. Miller, "METEOR-S WSDI: A Scalable Infrastructure of Registries for Semantic Publication and Discovery of Web Services," special issue: Universal Enterprise Integration, Journal of Information Technology and Management 6 (no. 1), January 2005, pp. 17–39. OpenURL

15. K. Sivashanmugam, J. A. Miller, A. Sheth and K. Verma, "Framework for Semantic Web Process Composition," special issue: Semantic Web Services and Their Role in Enterprise Application Integration and E-Commerce, International Journal of Electronic Commerce (IJEC) 9 (no. 2), Winter 04–05, pp. 71–106.

16. Sheth, C. Ramakrishnan, and C. Thomas, "Semantics for the Semantic Web: The Implicit, the Formal and the Powerful," International Journal on Semantic Web and Information Systems 1 (no. 1), 2005, pp. 1–18. Also published as ch. 2.8 in Online and Distance Learning: Concepts, Methodologies, Tools and Applications, L. Tomei (Ed.), Information Science Reference (IGI), 2008.

17. Sheth, B. Aleman-Meza, I. B. Arpinar, C. Ramakrishnan, C. Halaschek, C. Bertram, Y. Warke, C David Avant, F. S. Arpinar, K. Anyanwu, and K. Kochut, "Semantic Association Identification and Knowledge Discovery for National Security Applications," Journal of Database Management 16 (no. 1), January–March 2005, pp. 33–53.

18. J. Cardoso, A. Sheth, J. Miller, J. Arnold, and K. Kochut, "Quality of Service for Workflows and Web Service Processes," Journal of Web Semantics 1 (no. 3), 2004, pp. 281–308.

19. J. Cardoso, R.P. Bostrom, and A. Sheth, "Workflow Management Systems and ERP Systems: Differences, Commonalities, and Applications," Information Technology and Management Journal 5 (nos. 3–4), July–October 2004, pp. 319–338.

20. J. Cardoso and A. Sheth, "Semantic e-Workflow Composition," Journal of Intelligent Information Systems 21 (no. 3), November 2003, pp. 191–225.

21. R. Boyd, K. Murdison, J. Baffa, M. Brumund, A. Sheth, W. Karp, and J. Bhatia, "A Low–Cost Web-Based Tool for Pediatric Echocardiographic Consultations," Clinical Pediatrics 23, March 2003, pp. 185–186.

22. K. Anyanwu, A. Sheth, J. Cardoso, J. Miller, and K. Kochut, "Healthcare Enterprise Process Development and Integration," Journal of Research and Practice in Information Technology, 35 (no. 2), 2003, pp. 83–98.

23. S. Chandrasekaran, J.A. Miller, G. Silver, I.B. Arpinar, and A. Sheth, "Performance Analysis and Simulation of Composite Web Services," special issue: EM—Web Services, L. Heiko, R. Klüber, B.F. Schmid (Eds.), E (Electronic Markets) 13 (no. 2), June 2003, pp. 18–30.

24. K. Kochut, J. Arnold, A. Sheth, J. Miller, I.B. Arpinar, and J. Cardoso, "IntelliGEN: A Distributed Workflow System for Discovering Protein-Protein Interactions," special issue: Bioinformatics, Distributed and Parallel Databases 13 (no. 1), January, 2003, pp. 43–72.

25. Sheth, S. Thacker, and S. Patel, "Complex Relationship and Knowledge Discovery Support in the InfoQuilt System," VLDB Journal 12 (no. 1), September 25, 2002. Online publication. ISSN: 0949–877X; print: ISSN: 1060–8888

26. Sheth, C. Bertram, D. Avant, B. Hammond, K. Kochut, and Y. Warke, "Managing Semantic Content for the Web," IEEE Internet Computing, July/August 2002, pp. 80–87.

27. S. Wu, A. Sheth, J. Miller, and Z. Luo, "Authorization and Access Control of Application Data in Workflow Systems," Journal of Intelligent Information Systems 18 (no. 1), January 2002, pp. 71–94.

28. Mena, V. Kashyap, A. Illarramendi, and A. Sheth, "Imprecise Answers in Distributed Environments: Estimation of Information Loss for Multi-Ontology Based Query Processing," International Journal of Cooperative Information Systems 9 (no. 4), 2000, 403–425.

29. Mena, A. Illarramendi, V. Kashyap, and A. Sheth, "OBSERVER: An Approach for Query Processing in Global Information Systems based on Interoperation across Pre-existing Ontologies," Distributed and Parallel Databases 8 (no. 2), April 2000, pp. 223–271.

30. Z. Luo, A. Sheth, K. Kochut, and J. Miller, "Exception Handling in Workflow Systems," Applied Intelligence 13 (no. 2), September–October 2000, pp. 125–147.

31. K. Shah and A. Sheth, "InfoHarness: Managing Distributed, Heterogeneous Information," IEEE Internet Computing 3 (no. 6), November–December 1999, pp. 18–28.

32. Sheth, W. Aalst, and I. Arpinar, "Processes Driving the Networked Economy," IEEE Concurrency 7 (no. 3), July–September 1999, pp. 18–31.

33. J. Miller, D. Palaniswami, A. Sheth, K. Kochut, and H. Singh "WebWork: METEOR2's Web-based Workflow Management System," Journal of Intelligent Information Systems, 10 (no. 2), March 1998, pp. 186–215.

34. M. Singh, P. Cannata, M. Huhns, N. Jacobs, T. Ksiezyk, K. Ong, A. Sheth, C. Tomlinson, and D. Woelk, "The Carnot Heterogeneous Database Project: Implemented Applications," Distributed and Parallel Databases 5 (no. 2), April 1997, pp. 207–225.

35. P. Attie, M. Singh, E. Emerson, A. Sheth, and M. Rusinkiewicz, "Scheduling Workflows by Enforcing Intertask Dependencies," Distributed Systems Engineering 3 (no. 4), December 1996, pp. 222–238.

36. P. Krychniak, M. Rusinkiewicz, A. Cichocki, A. Sheth, and G. Thomas, "Bounding the Effects of Compensation under Relaxed Multi-Level Serializability," Distributed and Parallel Databases, 4 (no. 4), 1996, pp. 355–374. (DOI: 10.1007/BF00119339)

37. V. Kashyap and A. Sheth, "Schematic and Semantic Similarities between Database Objects: A Context-based Approach," VLDB Journal 5 (no. 4), October 1996, pp. 276–304.

38. J. Miller, A. Sheth, K. Kochut, and X. Wang, "CORBA-Based Run Time Architectures for Workflow Management Systems," special issue: Multidatabases, Journal of Database Management 7 (no. 1), Winter 1996, pp.16–27.

39. D. Georgakopoulos, M. Hornick, and A. Sheth, "An Overview of Workflow Management: From Process Modeling to Infrastructure for Automation," Distributed and Parallel Databases, 3 (no. 2), April 1995, pp. 119–153.

40. N. Krishnakumar and A. Sheth, "Managing Heterogeneous Multi-system Tasks to Support Enterprise-wide Operations," Distributed and Parallel Databases 3 (no. 2), April 1995, pp. 155–186.

41. D. Georgakopoulos, M. Rusinkiewicz, and A. Sheth, "Using Tickets to Enforce the Serializability of Multidatabase Transactions," IEEE Transactions on Data and Knowledge Engineering 6 (no. 1), February 1994, pp. 166–180.

42. K. Lee, W. Mansfield, and A. Sheth, "A Framework for Controlling Cooperative Agents," Computer 26 (no. 7), July 1993, pp. 8–16.

43. J. Geller, Y. Perl, P. Cannata, A. Sheth, and E. Neuhold, "Structural Integration: Concepts and Case Study," Journal of Systems Integration 3 (no. 2), June 1993, pp.133–161.

44. Sheth, S. Gala, and S. Navathe, "On Automatic Reasoning for Schema Integration," International Journal of Intelligent & Cooperative Information Systems 2 (no. 1), March 1993, pp, 23–50.

45. J. Geller, Y. Perl, E. Neuhold, and A. Sheth, "Structural Schema Integration with Full and Partial Correspondence using Dual Model," Information Systems: An International Journal 17 (no. 6), 1992, pp. 443–469.

46. M. Rusinkiewicz, A. Sheth, and G. Karabatis, "Specifying Interdatabase Dependencies in a Multidatabase Environment," IEEE Computer 24 (no. 12), December 1991, pp. 46–53.

47. J. Larson and A. P. Sheth, "Updating Relational Views Using Knowledge at View Definition and View Update Time," Information Systems: An International Journal 16 (no. 2), 1991.

48. Sheth and J. Larson, "Federated database systems for managing distributed, heterogeneous, and autonomous databases," ACM Computing Surveys 22 (no. 3), September 1990, pp. 183–236. Japanese translation appears in special issue of BIT "Computer Science '90," Japan.

49. Sheth, A. Singhal, and M. Liu, "An Analysis of the Effect of Network Parameters on the Performance of Distributed Database Systems," IEEE Transactions on Software Engineering, SE-11 (no. 10), 1985.

50. Elmagarmid, A. Sheth, and M. Liu, "A Partially Distributed Deadlock Algorithm," International Journal of Computer and Information Sciences 14 (no. 5), 1985.

Chapters in Books

1. Leonidas Deligiannidis and Amit Sheth, "Visualization of Two Parameters in a Three Dimensional Environment," Human-Computer Systems Interaction. Backgrounds and Applications. Editors: Zdzislaw S. Hippe and Juliusz L. Kulikowski. Springer-Verlag, 60, pp. 419-428, October 2009. ISBN: 978-3-642-03201-1

2. S. Tartir, I. B. Arpinar, and A. Sheth, "Ontology Evaluation and Validation," in TAO—Theory and Applications of Ontologies, Vol. 2, Ontology: The Information-Science Stance, Springer, forthcoming.

3. Sheth, S Agrawal, J. Lathem, N. Oldham, H Wingate, P. Yadav, and K. Gallegher, "Active Semantic Electronic Medical Records," in The Semantic Web: Real World Applications from Industry, Jorge Cardoso, Martin Hepp, and Miltiadis Lytras (Eds.), Springer, 2008, pp. 123–140. ISBN-13: 978-9-387-48530-0

4. F. Hakimpour, B. Aleman-Meza, M. Perry, and A. Sheth, "Spatiotemporal-Thematic Data Processing in Semantic Web," in The Geospatial Web, A. Scharl and K. Tochtermann (Eds.), Springer, May 2007.

5. M. Perry, A. Sheth, and I. B. Arpinar, "Geospatial and Temporal Semantic Analytics," in Encyclopedia of Geoinformatics, H. Karimia (Ed.), Idea Group, 2007. ISBN 1-59140-995-0

6. S. S. Sahoo, A. Sheth, B. Hunter, and W. York, "SemBOWSER—Semantic Biological Web Services Registry," in Semantic Web: Revolutionizing Knowledge Discovery in the Life Sciences, Christopher Baker and Kei-Hoi Cheung (Eds.), New York: Springer, 2007, pp. 318–339.

7. Aleman-Meza, A. Sheth, D. Palaniswami, M. Eavenson, and I. B. Arpinar, "Semantic Analytics in Intelligence: Applying Semantic Association Discovery to Determine Relevance of Heterogeneous Documents," in Advanced Topics in Database Research, vol. 5, K. L. Siau (Ed.), Idea Group Publishers, 2006, pp. 401–419.

8. J. Cardoso and A. Sheth, "The Semantic Web and its Applications," in Semantic Web Services, Processes and Applications, J. Cardoso and A. Sheth (Eds.), Springer, 2006, pp. 5–36.

9. K. Gomadam, K. Verma, A. Sheth, and K. Li, "Keywords, Port Types and Semantics: A Journey in the Land of Web Service Discovery," in Semantic Web Services, Processes and Applications, J. Cardoso and A. Sheth (Eds.), Springer, 2006, pp. 91–108.

10. K. Li, K. Verma, R. Mulye, R. Rabbani, J. Miller and A. Sheth, "Designing Semantic Web Processes: The WSDL-S Approach," in Semantic Web Services, Processes and Applications, J. Cardoso and A. Sheth (Eds.), Springer, 2006, pp. 163–198.

11. S. S. Sahoo and A. Sheth, "Bioinformatics Applications of Web Services," in Semantic Web Services, Processes and Applications, J. Cardoso and A. Sheth (Eds.), Springer, 2006, p. 305–322.

12. Sheth, "Enterprise Application of Semantic Web: the Sweet Spot of Risk and Compliance," in Industrial Applications of Semantic Web, M. Bramer and V. Terziyan (Eds.), Springer, 2005, pp. 47–62.

13. N. Oldham, C Thomas, A Sheth, and K. Verma, "METEOR-S Web Service Annotation Framework with Machine Learning Classification," in Semantic Web Services and Web Process Composition, Lecture Notes in Computer Science, vol. 3387, Springer, January 2005, pp. 137–146.

14. P. Rajasekaran, J. Miller, K. Verma1, and A. Sheth "Enhancing Web Services Description and Discovery to Facilitate Composition," in Semantic Web Services and Web Process Composition: 1st International Workshop, Lecture Notes in Computer Science, vol. 3387, Springer, January 2005, pp. 55–68.

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2. Karthik Gomadam, Ajith Ranabahu, Lakshmish Ramaswamy, Kunal Verma and Amit Sheth, "Mediatability: Estimating the Degree of Human Involvement in XML Schema

Mediation," 2nd IEEE International Conference on Semantic Computing (ICSC 2008), Santa Clara, CA, August 4-7, 2008.

3. Alba, V. Bhagwan, J. Grace, D. Gruhl, K. Haas, M. Nagarajan, J. Pieper, C. Robson, and N. Sahoo, "Applications of Voting Theory to Information Mashups," 2nd IEEE International Conference on Semantic Computing (ICSC 2008), Santa Clara, CA, August 4-7, 2008.

4. P. Mendes, B. McKnight, A. Sheth, and J. Kissinger, "TcruziKB: Enabling Complex Queries for Genomic Data Exploration," 2nd IEEE International Conference on Semantic Computing (ICSC 2008), Santa Clara, CA, August 4-7, 2008.

5. Prateek Jain, Peter Z. Yeh, Kunal Verma, Alex Kass and Amit P. Sheth;"Enhancing Process-Adaptation Capabilities with Web-Based Corporate Radar Technologies"; in Proceedings of OBI'08, 1st Int'l Workshop on Ontology-supported Business Intelligence, co-located with ISWC 2008, Kongresszentrum,Karlsruhe, Germany, October 26-30, 2008

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Workshop and Symposium Publications (Refereed)

1. Cory Henson, Amit Sheth, Prateek Jain, Josh Pschorr, and Terry Rapoch, "Video on the Semantic Sensor Web," W3C Video on the Web Workshop, San Jose, CA, December 12–13, 2007.

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2. D. Benslimane, S. Dudstar, and Amit P. Sheth (Eds.), special issue: Service Mashups, IEEE Internet Computing, 2008, forthcoming.
3. S. Dustdar, J. Fiadeiro, and A. Sheth (Eds.), special issue: Business Process Management, Data & Knowledge Engineering (Elsevier), 2008, forthcoming.
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Research Funding / Grants and Contracts Received as PI (since 1994[1])

Federal Funds (with additional matching funds in some cases)

- **Anonymous Sponsor**, "Trusted Semantic Sensor Network - Phase I," $300,000, February 2009 - July 2011.
- **Ontology and Semantic-Aided Human Cognition Knowledge Discovery** funded by The Air Force Research Lab's Human Effectiveness Directorate, WPAFB, $300,000, April 2010-March 2011.
- **Anonymous Sponsor**, "Trusted Semantic Sensor Web," $120,000, July 2008 - March 2009.
- **Human Performance Ontology** funded by The Air Force Research Lab's Human Effectiveness Directorate, WPAFB, $100,000, June 2008-March 2009.
- **Semantics and Services Enabled Problem Solving Environment for Trypanosoma cruzi** funded by National Heart, Lung and Blood Institute, $1,509,540, May 2008-June 2012.
- **Spatio-Temporal-Thematic Queries of Semantic Web Data - A Study of Expressivity and Efficiency**, National Science Foundation, $146,952, August 2008-August 2010.
- **AFRL/DAGSI Ohio Student-Faculty Research Fellowship** (with matching funds from the State of Ohio), "Architectures for Secure Semantic Sensor Networks for Multi-Layered Sensing" (stipend plus fellowship for PhD student Cory Henson), $87,437, April 2008-March 2009.
- **Sensor Data Management**, Principal Investigator of subcontract (subcontract to daytaOhio in Sensor-Aided Vigilance (SAVig), funded by Air Force Research Laboratory), $32,000, April-August 2007.
- **SemGrid: Semantic Discovery on Adaptive Services Grid**, Principal Investigator (UGA Co-PIs: Arpinar, Kochut, Miller), National Science Foundation (IIS 0545243), October 15, 2005 - December 31, 2007, **$100,000**.
- **An Ontological Approach to Financial Analysis & Monitoring**, Principal Investigator, ARDA funded project (subcontract to CTA, Inc.), **$325,000**, April 2005-September 2006.
- **Ontology, Metadata and Semantic Association Support for Semantic Agent Based Document Protection**, Principal Investigator, ARDA funded project (subcontract to CTA, Inc.), **$38,716**, November 2004-Febarury 2005.
- SemDis: Discovering Complex Relationships in Semantic Web, Principal Investigator (of joint UGA–UMBC project; UGA co-PIs: Arpinar, Kochut, Miller; UMBC co-PIs: Joshi, Finin, Yesha), National Science Foundation (IIS-based 325464–ITR Medium Projects), $800,000–UGA component (Project Manager of $1,250,000 overall project with UMBC component), October 1, 2003–September 30, 2007.
- Bioinformatics of Glycan Expression (part of Integrated Technology Resource for Biomedical Glycomics, Grant No. P41 RR018502), Investigator (Computer Science Coordinator; other CS investigators: K. Kochut, J. Miller), National Institute of Health, $709,401 (Computer Science Component), July 1, 2003–June 30, 2008. (Partial funds transferred to Wright State U. upon move).
- **System-Level Techniques for Energy Aware Computing** (focus area: Enabling Personal Networked and Home Computing Applications with Metadata, PI: D.

Lowenthal, co-PIs: Bhandarkar, Sheth, Li, Waterson), $27,150, July 1, 2003–June 30, 2004.

- **Semantic Association Identification and Knowledge Discovery for National Security Applications**, Principal Investigator, National Science Foundation, CISE-ITR-0219649 (co-PIs: I.B. Arpinar, K. Kochut), $200,000. REU Supplement for 2004, $12,000, July 1, 2002–June 30, 2005.
- **Database and Information Systems Research for Semantic Web and Enterprises**, National Science Foundation (CISE-IIS-based 211606), $15,000. EU Thematic Network OntoWeb, $5,000. University of Georgia Foundation and CS Department, $6,250, April 1, 2002–March 31, 2003.
- **Extending METEOR with workflow reuse, adaptation, and collaboration**, Principal Investigator, awarded by Naval Research Laboratory and ITT, $200,000, January 1, 2000–September 30, 2000.
- **The Alexandria Digital Earth Modeling System** (Semantic Interoperability and Collaboration), Principal Investigator of the UGA subcontract to UCSB, National Science Foundation-IIS-9817432 (co-PI: K. Kochut), $600,000 in federal funds, plus $25,000 in UGARF equipment matching, September 1999–August 2004.
- **Workflow Management for Advanced DoD Applications**, Principal Investigator, awarded by Naval Research Lab/Department of Navy-N00173-98-2-L005 (co-PIs:K. Kochut, J. Miller), $315,542 in federal funds, plus $15,000 in UGARF equipment matching funds, July 1, 1998–December 31, 1999.
- **METEOR: Healthcare Information Infrastructure Program—Enterprise Workflow Automation**, Principal Investigator for University of Georgia, awarded by National Institute of Standards and Technology (NIST)-ATP initiative on Information Infrastructure for Healthcare-70ANB5H1011 (co-PIs:K. Kochut, J. Miller), total project, $1,674,729+: $725,000 in federal funds over 4.5 years (3/95–2/96: $116,364; 3/96–2/97: $173,365; 3/97–2/98: $188,348; 3/98–3/99: $166,221; 3/99–8/99: $80,701); more than $949,727 in additional matching funds (from University of Georgia, University of Georgia Research Foundation, and industry donations; includes some of the funds listed under Industry Donations, below), March 1995–August 1999.
- **Collaborative Tele-Consulting for Healthcare (CaTCH)**, Principal investigator to South Carolina Research Authority awarded as a subcontract in HITECC funded by the NIST-ATP initiative (co-PIs for first year: K. Kochut, J. Miller, co-PIs for the second year: K. Kochut and K. Shah), total federal, $166,129: $112,480 for the first year, $47,149 for second year (partial) (additional second year and third year funds TBD, University of Georgia Research Foundation Matching in first year $12,500, June 1996–May 1999.
- **InfoHarness: A Scaleable System for Searching Heterogeneous Information**, Principal Investigator (of the overall project, joint project with Bellcore), awarded under the Massive Digital Data Systems initiative of the Community Management Staff, Contract no. 95-FI38400-000, over $600,000; University of Georgia component $197,030 (year 1: $87,327; year 2: $109,703) plus University of Georgia Research Foundation equipment matching grant of $14,500, April 15, 1995–August 30, 1997.
- **NSF Workshop on Workflow and Process Automation**, Principal Investigator, awarded by the National Science Foundation (Award no. IRI-9528870, Division of Information, Robotics, and Intelligent Systems, and the Division of Computer and

Computational Research), $24,795, plus $6000 donation by the University of Georgia Research Foundation, September 1995–September 1996.

➢ **NATO Award for Advanced Study Institute on Workflow Systems and Interoperability**, Co-Director (jointly with A. Dogac, L. Kalinichenko, T. Ozsu), Istanbul, Turkey, 2,400,000 BFr (US$76,000), December 1996–August 1997.

Industry/Consortia Funds

➢ **Homeland Security Workshop**, Principle Investigator (with co-PIs E. Lynn Usery, I. Budak Arpinar, Xiaobai Yao), UCGIS, $15,000, August 2003–July 2004.

➢ **Video Data Management System**, Principal Investigator, awarded by L G Electronics Research Center of America, $50,004, 1998. University of Georgia Research Foundation Matching in first year $2,500, January 1, 1998–December 31.

State and University Funds

➢ **Cloud Computing Collaboratory**, Wright State University, $48K, Amit Sheth (PI), John Gallagher, Keke Chen, Young Pei, Michael Raymer, TK Prasad, Bin Wang, Mateen Rizki, Shaojun Want, Prabhaker Mateti, Meilin Liu

➢ **Major Collaboration/Infrastructure Grant**, "Advanced Data Management Resource for Biomedical Research," Principal Investigator (WSU Co-PIs: M.L. Raymer, N.V. Reo), awarded through the Research Incentive Program of the Ohio Board of Regents by Wright State University, $30,000, May 1, 2007–June 30, 2008.

➢ **Faculty Research Commercialization Program**, Principal Investigator, awarded by the Advanced Technology Development Center in conjunction with Georgia Research Alliance, $50,000, July 1, 1998–June 30, 1998.

➢ **UGA Office of Instructional Development (OID)**, A. Sheth, D. Everett, J. Miller, K. Kochut, J. Smith, R. Robinson, and H. Arabnia, "Mobile Multimedia Instruction Environment," $8,500, April 1, 1996–March 30, 1997.

➢ **Course Approval Process Automation (CAPA)**, Principal Investigator, funded by the Vice President for Academic Affairs, University of Georgia, $150,065 (budget) July 1, 1996–June 30, 1997.

➢ **CareWeb for the Family Connection Program**, Principal Investigator, cooperative agreement funded by Medical College of Georgia, $30,000, May 1997–April 1998.

➢ **GradWeb** for the reengineering of the entire information system of UGA's Graduate School with Web-based graduate applications and processing of graduate student related information within the Grad School and with all departments, LSDIS lab award of approx. $32,430, July 1997–July 1998.

Competitive Awards and Industry Cash Gifts Received

➢ **Competitive Award, Microsoft Research**, $60,000 for "Chatter, Intent, Good Karma, and Contextual Advertisements in Social Networks," February 2008.

➢ **Competitive Award, IBM UIMA Innovation Award**, $23,000 for "UIMA-based Infrastructure for Summarizing Casual, Unstructured Text," November 2007.

➢ **Gift from HP Research, $50,000**, for research in unstructured text extraction, starting January 2008.

- ➢ **Gift/donation**, Athens Heart Center, $32,000, May 2005.
- ➢ **Competitive Award**, IBM Eclipse Innovation Grant 2005, $27,000, January 2005.
- ➢ **Gift/donation**, 2004 IBM Faculty Award, $30,000, 2004.
- ➢ **Competitive Award**, IBM Eclipse Innovation Award 2004, $28,000, January 2004.
- ➢ **Gift** from the Boeing Company as a LSDIS industry sponsor, $55,000 (annual gifts), December 1996, January 1998, January 2001.
- ➢ **Gift** from Microelectronic and Computer Technology Corporation (MCC) as a LSDIS industry sponsor, $20,000, June 1997.
- ➢ Gift from Hewlett-Packard Labs as a LSDIS industry affiliate, $12,500 (annual gifts for 1995,'96,'97, '98).
- ➢ **Gift** from LG Electronics Research Center of America as a LSDIS industry sponsor, $25,000, February 1998.

Industry Donations Received (total value over $650,000)

- ➢ Semagix Freedom, $255,000, 2005.
- ➢ Microsoft Research, donation of all requested software and training for Computer Science department (to support teaching) and LSDIS lab (for use in research), 1999.
- ➢ Informix Universal Server and other software (first receipt of grant program), Informix, $120,000, since April 1997. Renewed in 1998 and 1999 (value undetermined).
- ➢ Also from PictureTel live 200P and Developer's Tool kit, donated by PictureTel Corp., $6,775, June 1996, Virage's Visual Information Retrieval System (value not assigned) March 1997, MARGI's MPEG-to-GO (value not assigned) June 1997, POET (December 1998), Object Design Inc. (December 1998).
- ➢ I–Kinetics DataBroker and Open JDBC, $19,396, September 1997.
- ➢ Persistence, donated by Persistence Software Inc. $61,275, July 1995. Also, May 1997.
- ➢ ORBeline 2.0 and BlackWidow licenses (6), donated by PostModern Computing (first grant recipient of CORBA2.0 product), $83,700, March 1996.
- ➢ ORBIX and related products, donated by IONA Technologies, $45,295, October 1996. Again in 1998 (value undertermined).
- ➢ Illustra Server licenses (5) and several databases, awarded through a competitive grant program, Illustra Information Technology, Inc., $17,373.50, August 22, 1995.

[1] PI of research grants/contracts of over four million dollars from DARPA and other sources before joining UGA. Also raised significant funds for commercial activities from Venture Capital and other sources for non-academic activities.

Recognition, Outstanding Achievements and Honorary Appointments

1. IEEE Fellow elected on November 13, 2005 by IEEE Board of Directors with citation "for contributions to information integration and workflow management," Class of 2006.
2. Among the 50 or 60 most cited authors in computer science with h-index of 46 and over 9700 citations (as of May 2007). (A review of Sheth's publication citations record along with examples of Sheth's top-cited publications in several journals and conferences.) Highlights include: Sheth-Larson 1990 (with over 1650 citations) is the all-time most cited paper in information integration, second most cited paper in distributed databases, and one of the top

five cited papers in the entire field of databases. Georgakopoulos-Hornick-Sheth (with over 1000 citations) is the most cited paper in the area of workflow management. At least 20 papers have more than 100 citations; 40+ papers have more than 50 citations.

3. International Scientific Advisory Committee, BISCSE 2005: Forging New Frontiers, 40th of Fuzzy Pioneers (1965–2005), Berkeley CA, November 2–6, 2005.
4. 2004 IBM Faculty Award, March 2004.
5. UGA Career Center Recognition/Award for "greatly contributing to the career development of UGA students" (based on post-graduation student surveys), September 2002.
6. Patent co-inventor (Sheth, Avant, and Bertram), "System and Method for Creating Semantic Web and Its Applications in Browsing, Searching, Profiling, Personalization and Advertisement" (no. 6,311,194), October 30, 2001. Patent co-inventor (Georgakopoulos, Rusinkiewicz, Sheth) (no. 5,241,675), August 31, 1993.
7. Advisory Board, Coca-Cola Center for Marketing Studies, Terry College of Business, 2002–2003.
8. International Advisory Board, Internet Information Retrieval Research Center (IRC),Hankuk Aviation University, Korea, 2001–2002.
9. Board of Directors, Healthcare Open Systems & Trials (HOST) consortium, 1995–1999.
10. Member of the two-person International Advisory Board, TARA Project, University of Tsukuba, Japan. 1994–1996.
11. Selected and served as an ACM Lecturer, 1991–1992. Again for 1992–1993.
12. Outstanding Paper Award (co-author), 7th International Conference on Data Engineering, Kobe, Japan, April 1991.
13. Six Recognition of Service Awards/Certificates of Appreciation from the IEEE TC on Data Engineering and the IEEE Computer Society– 1989, '90, '91, '92; from IEEE Technical Community on Services Computing– 2004; from the ACM– 1993.
14. Citation for contributions to Bellcore for conceiving, developing, and prototyping the flexible transactional workflow technology, and business opportunity development, 1993. Also a recipient of Bellcore's Vice President team award for outstanding contribution, November 1993. Bellcore Achievement Award, 1989.
15. Board of Advisors, Indiana Center for Database Systems, 1991–1993.
16. Award from the Federal Computer Conference in recognition of contributions, April 1989.
17. Best Paper Award (co-author) Computer Networking Symposium, 1984.
18. National Merit Scholar, Government of India, 1975.

Professional or Scholarly Activities

Technology Licensing, Commercialization, and Deployed Systems

Recent software systems developed under supervision as PI of projects (with co-PIs where applicable) that are commercialized, used for R&D by other institutions or used for operational/regular work:

➢ **ASEMR**:Active Semantic Electronic Medical Record system, deployed at the Athens Heart Center, 2005. Information at: OpenClinical, STC, SWLS, LSDIS
➢ **SCORE**, a technology for automatic metadata extraction and semantic applications, and for A/V search based on an Industry funded research project VideoAnywhere at the

LSDIS lab. It has been licensed to Semagix, Inc. (formerly Taalee and Voquette, Inc.) by the University of Georgia research foundation to the first Venture Capital funded Internet–startup in the Athens, GA area. Commercial product from Semagix based on SCORE is named Freedom. This resulted in over $6 million in payroll and other direct benefit to the economy of Athens, GA, before the company moved to Atlanta, GA.

- **AdaptX Harness**, a commercial product from Bellcore (Telcordia Technologies) introduced in 1995 and supported through 2000 (lead project at Bellcore, subsequent technology transfer in joint project with UGA; see funded projects below).

- **METEOR** system (several components) was deployed at Boeing, Microelectronics and Computer Technology Corp., Connecticut Healthcare Research & Education Foundation and its Information Technology subsidiary CHIME, South Carolina Research Authority, National Institute of Standards and Technology's Manufacturing Program, etc. It has also been distributed to many higher education institutions for teaching and research and to industrial labs for non-commercial used. It was licensed to Infocosm, Inc., a startup company that has made METEOR available as a commercial product.

- **CAPA** system was completed and deployed for use throughout the UGA campus by any faculty and staff involved in proposing new courses or changes to the courses, and processing/approval of the proposals. In its first quarter of use, approx. 6000 courses were processed. LSDIS lab developed it and maintained the system for the first year, and is now transferred to the VPAA's office. CAPA system has been operational since 1997.

- **GradWeb** system overhauls the Graduate Schools information systems to provide a completely Web based environment for use by Staff and Administrators within the Graduate School and all interacting departments, as well as by graduate applicants and students. Application material is available electronically and applications be submitted electronically.

- **CareWeb**, a Web resource developed in collaboration with Medical College of Georgia under State of Georgia's Family and Children Services department to support health information and education needs of underserved populations.

Interviews and Biographical Profiles

- "WSU Developing New Web Technologies," interview in the Dayton Daily News, April 16, 2007.
- "Wright State researchers pioneer new ground in Web technology affecting health care, terrorism, defense, and financial services," WSU Communications & Marketing. March 27, 2007.
- Commercialization Profile for Semagix in "A Mission Possible: Transforming UGA Research Discoveries Into New Technology Companies," published by the University of Georgia, January 2006, p.7.
- "An Interview with Amit Sheth: The Information Systems Perspective on Semantic Web Research," in the Bulletin of AIS Special Interest Group on Semantic Web and Information Systems, vol. 1 (no. 1), April 2004. (Copy)
- "When Academicians Become Entrepreneurs," a profile of Dr. Amit Sheth in the Sandpaper, May 2003. (Copy)
- interview by John Townley: "The Streaming Search Engine That Reads Your Mind," in Streaming Media World, August 10, 2000.

- ➤ "Interview: Amit Sheth on Workflow Technology," by Sushil Jajodia, IEEE Concurrency, April–June 1998, pp. 21–23. (Copy)
- ➤ Technology Interviews: (a) discussing Semantic Web State of the Art in "Apps Make Semantic Web a Reality," SD Times, April 1, 2005, pp. 5, 17; (b) future in Internet related technologies and relevant research at UGA following broad-based talks, published in the Economic Times, January 1995 (several editions), and the Times of India (several editions), January 1996 (national newspapers in India with largest circulation in Business and General categories, respectively).
- ➤ Interview discussing applications of the METEOR system in Healthcare in Research Reporter, UGA, Winter 1997, and in Healthcare Informatics (http://www.healthcare-informatics.com/issues/2001/02_01/cover.htm#workflow).
- ➤ Biographical profiles published in a Gujarati book (1996) and an English (1997) book.

Journal and Book Series Editorship

1. **Series Editor** (with Ahmed Elmagarmid), Advances in Database Systems, Springer, July 2007–. ISSN: 1386-2944
2. **Joint Editor-in-Chief** (with Ahmed Elmagarmid), Distributed and Parallel Databases: An International Journal, Springer, June 2007–. ISSN: 0926-8782
3. **Editor-in-Chief**, International Journal on Semantic Web and Information Systems (IJSWIS), Idea Group Publishing, 2005–present.
4. **Series Editor** (with Ramesh Jain), Book Series on Semantic Web and Beyond: Computing for Human Experience, Springer, 2004–present.
5. **Member of the Editorial Advisory Board**, Advances in Web Services Research (AWSR) Book Series, IGI Global, 2007–present.
6. **Member of the Editorial Board**, IEEE Internet Computing, May 2006–present.
7. **Member of the Editorial Review Board**, International Journal of Web Services Research, 2005–present.
8. **Member of the Editorial Board**, Journal on Web Semantics: Science, Services and Agents on the World Wide Web, 2003–present.
9. **Member of the Editorial Board** (acting Editor-in-Chief from 9/94 to 3/95), the Journal on Distributed and Parallel Databases, 1992–present.
10. **Member of the Editorial Board**, the International Journal of Intelligent and Cooperative Information Systems, 1995–present.
11. **Member of the Editorial Board**, Information Systems: an International Journal, 1993–present.
12. **Member of the Editor Board**, IEEE Multimedia, 1998–2004. Also edited Media Reviews.
13. **Member of the Editorial Advisory Board**, International Journal of Engineering Intelligent Systems, 1993–2000.
14. **Member of the Editorial Board**, Distributed Systems Engineering Journal, 1993–1999.

Key Committee/Honorary Memberships

1. World Wide Web Consortium (W3C) Advisory Committee Member, 2004–present.
2. Advisory Board of Semantic Web Challenge 2005. Also in 2006.
3. Member, Semantic Web Services Initiative Architecture Committee (SWSA), 2004–2005.

4. Faculty, Institute of Bioinformatics, UGA, 2004– present.
5. Faculty, Biomedical and Health Science Institute, UGA, 2004.
6. Associate Editor for SIGMOD Record, 1988–present. Also edited research center reports.
7. Advisor on Workflow for SIGGROUP (ACM's SIG for GroupWare and GroupWork), 1996–1999. Also edited a section of the Bulletin.

Industry Courses and Workshops

1. "Semantic Web and Semantic Web Services," professional course, University of Ma deira, Funchal, Portugal, June 16–18, 2005. More information
2. "Mysteries of Metadata," Content World 2001, Burlingame, CA, May 15, 2001. (3 hours)
3. "Workflow Management: Research, Technology, Products, Applications and Experiences," course leaders: A. Sheth and S. Joosten, offered by WARIA, Atlanta, GA, August 12–14, 1996. (3 days)

Technical Meetings (Conferences, Workshop) Organization

1. **Co-organizer**, Special Session on Sensor Web Enablement, 2009 International Symposium on Collaborative Technologies and Systems (CTS 2009), Baltimore, Maryland, May 18-22, 2009.
2. **Program Committee Chair**, 7th International Semantic Web Conference (ISWC 2008), Karlsruhe, Germany, October 26-30, 2008.
3. **Program Committee Chair**, International Conference on Web Services (ICWS 2008), Beijing, China, September 23-26, 2008.
4. **Steering Committee Chair**, Advances in Semantics for Web Services 2008 (semantics4ws 2008), Milan, Italy, September 1-4, 2008.
5. **Organizing Committee**, International Workshop on Community-Based Evolution of Knowledge-Intensive Systems (COMBEK'08), Monterrey, Mexico, November 9–14, 2008.
6. **Program Committee Chair**, 7th International Semantic Web Conference (ISWC 2008), Karlsruhe, Germany, October 26–30, 2008.
7. **Steering Committee Chair**, Workshop Series: Advances in Semantics for Web services 2008 (semantics4ws 2008), at the 5th International Conference on Business Process Management (BPM 2008), Milan, Italy, September 1–4, 2008.
8. **Organizing Committee**, Special Session on Mobile Semantic Computing, 2nd IEEE International Conference on Semantic Computing (ICSC 2008), Santa Clara, CA, August 4-7, 2008.
9. **Co-organizer**, WWW08 International Workshop on Context Enabled Source and Service Selection, Integration, and Adaptation (CSSSIA 2008), Beijing, China, April 22, 2008.
10. **Co-organizer**, Association for the Advancement of Artificial Intelligence (AAAI) 2008 Spring Symposium, "AI Meets Business Rules and Process Management," Stanford University, Palo Alto, CA, March 26–28, 2008.
11. **Co-organizer**, 2d Workshop on Advances in Semantics for Web Services (semantics4ws'07) at BPM 2007, Brisbane, Australia, September 24, 2007.
12. **General Chair**, 4th International Workshop on Semantic Web for Services and Processes (SWSP 07), in conjunction with 2007 IEEE International Conference on Web Services, Salt Lake City, UT, July 9, 2007.

13. **Co-organizer**, 1st International Workshop on Web Service Composition and Adaptation (WSCA-2007), in conjunction with 2007 IEEE International Conference on Web Services Salt Lake City, UT, July 9–13, 2007.
14. **Co-organizer**, Autonomic Web Services, Dagstuhl Seminar 07061, February 4–9, 2007
15. Industry Track Chair, 5th International Semantic Web Conference, Athens, GA, November 6–9, 2006.
16. **General Chair**, 3rd International Workshop on Semantic and Dynamic Web Processes (SWDP2006), Chicago, September 18, 2006.
17. **Program Co-chair**, 4th International Conference on Business Process Management (BPM 2006), Vienna, Austria, September 5–7, 2006.
18. **Organization Committee Co-chair**, Advances in Semantics for Web services Workshop, (semantics4ws'06), at BPM 2006, Vienna, Austria, September 4, 2006.
19. **Co-organizer**, SIG on Semantic Web and Information Systems (mini-track) at the 12th Americas Conference on Information Systems, Acapulco, México August 4–6, 2006.
20. **Program Co-chair**, AI-Driven Technologies for Services-Oriented Computing (AAAI-06 Workshop), Boston, MA, July 16–17, 2006.
21. **Organization Committee**, the International Workshop on Distributed Applications for B2B Integration (DABI 2006), to be held in conjunction with 26th ICDCS, Lisbon, Portugal, July 4–7, 2006.
22. **Organizing Committee**, ESWC'06 Industry Forum Day Business Applications of Semantic Web technology, Budva, Montenegro, June 11–14, 2006.
23. **Steering Committee**, Semantic Web Services Challenge 2006: Challenge on Automating Web Services Mediation, Choreography and Discovery, Stanford University & ESWC, 2006.
24. **Program Committee Co-chair**, International Workshop on Semantics enabled Networks and Services (ICDE SeNS 2006) at ICDE2006, Atlanta, GA, April 7, 2006.
25. **General Chair**, 3rd International Workshop on Semantic Web and Databases (ICDE SWDB'06) at ICDE2006, Atlanta, GA, April 3, 2006,
26. **Co-organizer**, "Semantic Web meets eGovernment," AAAI Spring Symposium Series (SSS-based6), Stanford University, Palo Alto, CA, March 27–29, 2006.
27. **Co-chair**, Organization Committee, International Workshop in Dynamic Web Processes (DWP 2005) at ICSOC 2005, Amsterdam, Netherlands, December 12, 2005.
28. **Co-chair**, 2nd International Workshop on Semantic and Dynamic Web Processes (SDWP2005) Orlando, FL, July, 2005.
29. **Co-organizer**, Semantic Interoperability and Integration, Dagstuhl Seminar 04391, Dagstuhl, Germany, September 19–24, 2004.
30. **Program Co-chair**, 2004 IEEE International Conference on Services Computing (SCC 2004), Shanghai, China, September 15–18, 2004.
31. **Co-organizer**, 1st International Workshop on Semantic Web Services and Web Process Composition (SWSWPC 2004), San Diego, CA, July 6–9, 2004.
32. **Co-organizer**, NASA Workshop on the Knowledge Integrating Virtual Iron Bird, March 31–April 2, 2004.
33. **Co-chair**, UCGIS Homeland Security Workshop, Amicalola Falls and State Park, GA, November 5–7, 2003.
34. **Co-chair**, Workgroup on Semantic Web, NSF 2002 Workshop on Information and Data Management, Arlington, VA, May 5–7, 2002.

35. **Organizer/Chair**, NSF-EU Invitational Workshop on Database and Information Systems Research for Semantic Web and Enterprises, (Robert Meersman, Co-organizer), Amicalola State Park, GA, April 3–5, 2002.
36. **Co-organizer**, 2nd International Workshop on the Semantic Web (SemWeb'2001) at WWW10, Hong Kong, May 1, 2001.
37. **Program Co-chair**, IEEE conference on Advances in Digital Library, Washington DC, May 2000.
38. **Co-director**, NATO Advanced Study Institute on Workflow Systems and Interoperability, Istanbul, Turkey, August 12–22, 1997.
39. **General Co-chair**, 1st International Conference on Interoperable and Cooperative Information Systems (CoopIS '96), June 1996.
40. **Program Chair and Organizing Committee Chair**, NSF workshop on Workflow and Process Automation: State-of-the-art and Future Directions, May 1996.
41. **Program Co-chair**, 3rd International Conference on Parallel and Distributed Information Systems, 1994.
42. **Program Vice-chair**, Technology and Applications Track, the 10th International Conference on Data Engineering, 1994.
43. **Program Co-chair**, 3rd RIDE-International Workshop on Interoperability in Multidatabase Systems, April 1993.
44. **General Chair**, 1st International Conference on Parallel and Distributed Information Systems, 1991.
45. **Program Vice-chair**, 6th IEEE International Conference on Data Engineering, 1990.
46. Chair for the Workshop on Management of Interdependent Data in Bellcore and BCCS, 1990.
47. **Program Vice-chair,** 5th IEEE International Conference on Data Engineering, 1989.

Other Organization Committee Roles

1. **Co-Organizer**, Semantic Challenges in Sensor Networks, January 24-29, 2010.
2. **Co-Chair**, W3C Semantic Sensor Networks Incubator Group, October 2008-March 2010.
3. **Scientific Steering Committee and Organizing Committee**, CooPIS and ODBASE Conferences, Monterrey, Mexico, November 9–14, 2008.
4. **PC chair**, 7th International Semantic Web Conference (ISWC 2008), Karlsruhe, Germany, October 26-30, 2008
5. **Steering Committee Chair**, BPM 2.0 —Semantic Web and Web 2.0 Meet BPM: Semantics in Business and Scientific Processes," Milan, Italy, September 1-4, 2008.
6. **Program Committee Chair**, 7th International Semantic Web Conference ISWC 2008), Karlsruhe, Germany, October 26-30, 2008.
7. **Steering Committee**, 2nd IEEE International Conference on Semantic Computing (ICSC 2008), Santa Clara, CA, August 4–7, 2008.
8. **Steering Committee**, 2nd International Workshop on Web Service Composition and Adaptation (WSCA-2008), in conjunction with 6th IEEE International Conference on Services Computing (SCC-2008), Honolulu, HI, July 8, 2008.
9. **Co-organizer**, Association for the Advancement of Artificial Intelligence (AAAI 2008) Spring Symposium, "AI Meets Business Rules and Process Management," Stanford University, Palo Alto, CA, March 26-28, 2008.

10. **Co-organizer**, 2d Workshop on Advances in Semantics for Web Services (semantics4ws'07) at BPM 2007, Brisbane, Australia, September 24, 2007.
11. **General Chair**, 4th International Workshop on Semantic Web for Services and Processes (SWSP 07), in conjunction with 2007 IEEE International Conference on Web Services, Salt Lake City, UT, July 9, 2007.
12. **Co-organizer**, 1st International Workshop on Web Service Composition and Adaptation (WSCA-2007), in conjunction with 2007 IEEE International Conference on Web Services, Salt Lake City, UT, July 9-13, 2007.
13. **Co-Organizer**, Autonomic Web Services, Dagstuhl Seminar 07061, February 4-9, 2007.
14. **Industry Track and Sponsorship Chair**, International Semantic Web Conference, Athens, GA, November 6-9, 2006.
15. **Program Co-Chair**, 4th International Conference on Business Process Management (BPM 2006), Vienna, Austria, September 2006.
16. **General Chair**, 3rd International Workshop on Semantic and Dynamic Web Processes (SWDP2006), Chicago, September 18, 2006.
17. **Program Committee Chair**, Fourth International Conference on Business Process Management (BPM 2006), Vienna, Austria, September 5-7, 2006.
18. **Co-organizer and Program Committee Chair**, Advances in Semantics for Web Services Workshop (semantics4ws'06), at BMP 2006, Vienna, Austria, September 4, 2006.
19. **Co-organizer**, SIG on Semantic Web and Information Systems (mini-track) at the 12th Americas Conference on Information Systems, Acapulco, Mexico August 4-6, 2006.
20. **Program Co-Chair**, AI-Driven Technologies for Services-Oriented Computing (AAAI-06 Workshop), Boston, MA, July 16-17, 2006.
21. **Organization Committee**, International Workshop on Distributed Applications for B2B Integration (DABI 2006), to be held in conjunction with 26th ICDCS, Lisboa, Portugal, July 4-7, 2006.
22. **Organizing Committee**, ESWC'06 Industry Forum Day Business Applications of Semantic Web technology, Budva, Montenegro, June 11-14, 2006.
23. **General Chair**, 3rd International Workshop on Semantic Web and Databases (ICDE SWDB'06) at ICDE2006, Atlanta, GA, April 7, 2006.
24. **PC Co-chair**, International Workshop on Semantics enabled Networks and Services (ICDE SeNS 2006) at ICDE2006, April 3, 2006, Atlanta, GA.
25. **Co-organizer**, "Semantic Web meets eGovernment," AAAI Spring Symposium Series (SSS-06), Sanford University, CA, March 27-29, 2006.
26. **Co-chair**, Organization Committee, the International Workshop in Dynamic Web Processes (DWP 2005) at ICSOC 2005, Amsterdam, NL, December 12, 2005.
27. **Co-chair**, 2nd International Workshop on "Semantic and Dynamic Web Processes" (SDWP2005) Orlando, FL, USA, July, 2005.
28. **Co-organizer**, "Semantic Interoperability and Integration," Dagstuhl Seminar 04391, Dagstuhl, Germany, September 19-24, 2004.
29. **Program Co-Chair**, 2004 IEEE International Conference on Services Computing (SCC 2004), Shanghai, China, September 15-18 2004.
30. **Co-organizer**, 1st International Workshop on Semantic Web Services and Web Process Composition (SWSWPC 2004) San Diego, California, USA, July 6-9, 2004.
31. **Co-organizer**, NASA Workshop on the Knowledge Integrating Virtual Iron Bird, March 31- Aril 2, 2004.

32. **Co-Chair**, UCGIS Homeland Security Workshop, Nov 5-7, Amicalola Falls and State Park, GA, Nov. 5-7, 2003.
33. **Co-Chair**, Workgroup on Semantic Web, NSF 2002 Workshop on Information and Data Management:, Arlington, VA, May 5-7, 2002.
34. **Organizer/Chair**, NSF-EU Invitational Workshop on Database and Information Systems Research for Semantic Web and Enterprises, (Robert Meersman, Co-Organizer), Amicalola State Park, GA, April 3-5, 2002.
35. **Co-Organizer**, 2nd International Workshop on the Semantic Web - SemWeb'2001 at WWW10, Hongkong, May 1, 2001.
36. **Program co-chair**, IEEE conference on Advances in Digital Library, Washington DC, May 2000.
37. **Steering Committee**, Semantic Web Services Challenge 2006: Challenge on Automating Web Services Mediation, Choreography and Discovery, Stanford University, 2006.
38. **Panel Chair**, Federated Conferences ODBASE/CooPIS 2002, Irvine CA, October 2002.
39. **Steering Committee**, Science on the Semantic Web: Building the Next Generation of Environmental Information Systems, Rutgers University, NJ, October 24, 25, 2002.
40. **Steering Committee Chair and founder**, 1st ACM International Conference on Work Activity Coordination and Collaboration, February 1999, San Francisco, CA.
41. **Panel Chair**, 5th International Conference on Information and Knowledge Management (CIKM'96), Rockville, MD, November 12–16, 1996.
42. **Panel Co–Chair**, 22nd International Conference on Very Large Data Bases, Bombay, India, September 1996.
43. **Founding Member and Executive Committee Member/Treasurer**, International Foundation on Cooperative Information Systems, 1995–present.
44. **Steering Committee Member**, International Conference on Parallel and Distributed Information Systems, 1995–present.
45. **Panel Chair and Member of Organization Committee**, 6th IFIP TC-2 Working Conference on Data Semantics (DS-6), Stone Mountain, GA, June 1995.
46. **Tutorial Chair,** ACM SIGMOD Conference, 1993.
47. **Tutorial Chair**, 7th IEEE International Conference on Data Engineering, 1988 and 1991.
48. **Secretary and Treasurer** of the executive committee of the IEEE CS TC on Data Engineering, 1992–present.
49. **Publication Chair**, 1st International Workshop on Interoperability in Multidatabase Systems (IMS '91), April 1991.
50. **Associate Editor** for SIGMOD Record, 1988–2005.
51. **Tutorial Chair**, 4th IEEE International Conference on Data Engineering, 1988.

Program Committee Member for International Conferences and Workshops

1. 7th International Workshop on Middleware for Grids, Clouds and e-Science (MGC 2009), In conjunction with ACM/IFIP/USENIX 10th International Middleware Conference 2009, Urbana Champaign, Illinois, November 30 - December 4, 2009.
2. Second International Workshop on Modeling Mobile Applications and Services (M2AS'09), held in conjunction with the 28th International Conference on Conceptual Modeling (ER 2009), Gramado, Brazil, November 9-12, 2009.

3. Third International Workshop on Web APIs and Services Mashups (Mashups'09) at OOPSLA 2009, Orlando, Florida, October 25-29, 2009.
4. 8th International Semantic Web Conference (ISWC 2009), Washington, DC, October 25-29, 2009.
5. 5th IEEE Workshop on Situation Management (SIMA 2009) in conjunction with IEEE MILCOM 2009, World Trade Center, Boston, MA, October 19-21, 2009.
6. Advanced Knowledge-Based Systems, 13th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES 2009), Santiago Chile, September 28-30, 2009.
7. Business Process Management 2009, Ulm, Germany, September 7-10, 2009.
8. 1st International Workshop of Semantic Sensor Web (SemSenWeb 2009), Haraklion, Crete, Greece, May 31- June 4, 2009.
9. WWW2009 18th Intl. World Wide Web Conference- Semantic/Data Web track, April 20-24, 2009.
10. 3rd Asian Semantic Web Conference (ASWC 2008), Bangkok, Thailand, February 2-5. 2009.
11. Second International Workshop on Web APIs and Services Mashups (Mashups'08) at ICSOC 2008 - Sydney, Australia, December 1, 2008
12. Multimedia 2008, 2nd International Workshop on the Many Faces of Multimedia Semantics, Vancouver, Canada, October 27–November 1, 2008.
13. 10th International Conference on Visual Information Systems (VISUAL2008), Salerno, Italy, September 11–12, 2008.
14. Advanced Knowledge-based Systems, Invited Session, 12th International Conference on Knowledge-based and Intelligent Information & Engineering Systems (KES 2008), Zagreb, Croatia, September 3–5, 2008.
15. 5th European Semantic Web Conference (ESWC 2008 Ph.D. Symposium) Tenerife, Spain, June 1-5, 2008.
16. Semantic Web for Health Care and Life Sciences Workshop, in conjunction with the 17th International World Wide Web Conference, Beijing, China, April 21–25, 2008.
17. Semantic Web for Health Care and Life Sciences Workshop , Beijing, China, April 22, 2008
18. Workshop on Information Systems Economics (WISE 2007), Montreal, Quebec, Canada, December 8-9, 2007.
19. 1st International Workshop on Networking for Distributed Knowledge Management (NDKM'07), Albufeira, Portugal, November 25–30, 2007.
20. 3rd International IFIP Workshop on Semantic Web & Web Semantics (IFIP SWWS 2007), Albufeira, Portugal, November 25–30, 2007.
21. 6th International Semantic Web Conference and 2nd Asian Semantic Web Conference, Busan, Korea, November 11–15, 2007
22. 1st Workshop CyberInfrastructure: Information Management in eScience (CIMS), Collocated with ACM CIKM 2007, Lisbon, Portugal, November 9, 2007.
23. International Conference on Advances in Semantic Processing (SEMAPRO 2007), Papeete, French Polynesia, November 4–9, 2007.
24. Workshop on Cyberinfrastucture for e-Science (CyIneS 2007), IEEE/WIC/ACM Joint Conference on Web Intelligence and Intelligent Agent Technology, Silicon Valley, CA, November 2–5, 2007
25. Usage of Service Level Agreements in Grids Workshop, in conjunction with the 8th IEEE International Conference on Grid Computing (Grid 2007), Austin, TX, September 19, 2007.

26. 11th International Workshop on Cooperative Information Agents (CIA 2007), Delft, Netherlands, September 19–21, 2007.
27. 22nd National Conference on Artificial Intelligence: AAAI-based7 (Special track on Artificial Intelligence and the Web), Vancouver, British Columbia, Canada, July 22–26, 2007.
28. 9th International Conference on e-Health Networking, Applications and Services, Taipei, Taiwan, June 19-22, 2007.
29. 1st International Conference on Web Reasoning and Rule Systems, Innsbruck, Austria, June 7–8, 2007.
30. From Concepts & Prototypes to Practical Solutions, 1st International Workshop on Semantic Technology Adoption in Business (STAB'07), in conjunction with ESTC 2007, Vienna, Austria, May 31–June 1, 2007.
31. 16th International World Wide Web Conference (WWW2007), Semantic Web track, Banff, Canada, May 10–12, 2007.
32. 16th International World Wide Web Conference (WWW2007), E-Applications track, Banff, Canada, May 10–12, 2007.
33. 5th International Semantic Web Conference (ISWC 2006), Senior PC member/meta-reviewer, Research/Academic track, Athens, GA, November 5–9, 2006.
34. 4th IEEE International Conference on Web Services, Chicago, IL, September, 2006.
35. 1st Asian Semantic Web Conference, Beijing, China, September 5–7, 2006.
36. 21st National Conference on Artificial Intelligence (AAAI-06), Boston, MA, July 16–20, 2006.
37. 3rd Annual European Semantic Web Conference (ESWC2006), Budva, Montenegro, June 2006. (Senior PC Member)
38. 15th International World Wide Web Conference (WWW2006), XML and Web Services track, Edinburgh, Scotland, May 22–26, 2006.
39. 15th International World Wide Web Conference (WWW2006), E-Applications track, Edinburgh, Scotland, May 22–26, 2006.
40. 15th International World Wide Web Conference (WWW2006), E* track, Edinburgh, Scotland, May 22–26, 2006.
41. IEEE Intelligence and Security Informatics (ISI) Conference, San Diego, CA, May 22–24, 2006.
42. IEEE International Conference on Granular Computing, Atlanta, GA, May 10–12, 2006.
43. 22nd International Conference on Data Engineering, Atlanta, GA, April 3–7, 2006.
44. 2nd International Workshop on Database Interoperability (InterDB2006), April 2006.
45. 6th International Conference on Web Information Systems (WISE 2005), New York, NY, December 2005.
46. 1st International Conference on Geospatial Semantics (GeoS 2005), Mexico City, Nov 29–30, 2005.
47. 4th International Semantic Web Conference (ISWC 2005), Senior PC member, Research/Academic track, Galway, Ireland, November 6–10, 2005.
48. 4th International Semantic Web Conference (ISWC 2005), Industrial track, Galway, Ireland, November 6–10, 2005.
49. 4th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE), Agia Napa, Cyprus, Oct 31 – Nov 4, 2005.
50. K-Cap Workshop on Integrating Ontologies, Banff, Canada, October 2, 2005.

51. IFIP Working Conference on Virtual Enterprises (PRO-VE'05), Valencia, Spain, September 26–28, 2005.
52. 2005 IEEE Service International Conference on Services Computing (SCC 2005), Orlando, FL, July 12–15, 2005.
53. 3rd IEEE International Conference on Web Services, Orlando, FL, July 12–15, 2004.
54. 1st International Workshop on Contexts and Ontologies: Theory, Practice and Applications (an AAAI'05 Workshop), Pittsburgh, PA, July 9–10, 2005.
55. W3C Workshop on Frameworks for Semantics in Web Services, Innsbruck, Austria, June 9–10, 2005.
56. IEEE International Conference on Intelligence and Security Informatics (ISI-2005), Atlanta, GA, May 19–20, 2005.
57. 14th International World Wide Web Conference (WWW2005), Semantic Web Track, Chiba, Japan, May 10–14, 2005.
58. 21st International Conference on Data Engineering, Tokyo, Japan, April 2005.
59. 1st UK Young Researchers Workshop on Service Oriented Computing (YR–SOC), Leicester, UK, April 21–22, 2005.
60. 2nd International Conference on Service Oriented Computing (ICSOC'04), New York, NY, November 15–19, 2004.
61. 3rd International Conference on Semantic Web, Industry PC, Hiroshima, Japan, November 7–11, 2004.
62. 1st International Workshop on Semantic Web Technologies in Electronic Business, Berlin, Germany, October 11–13, 2004.
63. AAAI 2004 Workshop on Semantic Web Personalization, San Jose, CA, July 25–26, 2004.
64. IEEE International Conference on Web Services (ICWS 2004), San Diego, CA, July 6–9, 2004.
65. 13th International World Wide Web Conference (WWW2004): Web Services track, New York, NY, May 17–22, 2004.
66. 13th International World Wide Web Conference (WWW2004): Semantic Web track, New York, NY, May 17–22, 2004.
67. 2nd Workshop on Semantics in Peer-to-Peer and Grid Computing (at WWW2004), New York, May 17–18, 2004.
68. 4th International Conference on Web Information Systems Engineering (WISE'03), Rome, Italy, December 10–12, 2003.
69. 2nd International Conference on Ontologies, DataBases, and Applications of Semantics for Large Scale Information Systems (ODBASE'03), Sicily, November 3–7, 2003.
70. 12th International Conference on Information and Knowledge Management (CIKM 2003), New Orleans, LA, November 2–8, 2003.
71. 2nd International Semantic Web Conference, Sanibel, FL, October 20–24, 2003. (Senior PC Member)
72. Semantic Integration Workshop (at ISWC2003), Sanibel Island, FL, October 20, 2003.
73. Workshop on Semantic Web Technologies for Searching and Retrieving Scientific Data (at ISWC2003), Sanibel Island, FL, October 20, 2003.
74. Workshop on Practical and Scalable Semantic Systems (at ISWC2003), Sanibel Island, FL, October 19, 2003.
75. 2003 IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003), Beijing, China, October 13–17, 2003.

76. ICEC Workshop on Semantic Web Services for Enterprise Application Integration and E-Commerce, Pittsburg, PA, September 30–October 3, 2003.
77. Semantic Web Services for Enterprise Application Integration and E-Commerce (SWSEE03), Pittsburgh, PA, September 30, 2003.
78. 4th Annual International Conference on Object-oriented and Internet-based Technologies, Concepts, and Applications for a Networked World, Thuringia, Germany, September 22–25, 2003
79. Workshop on Semantic Web and Databases at the 29th International Conference on Very Large Data Bases (VLDB 2003) Berlin, Germany, September 9–12, 2003.
80. 1st International Workshop on Semantic Web and Databases, Berlin, Germany, September 7–8, 2003.
81. 7th International Workshop CIA-2003 on Cooperative Information Agents, Helsinki, Finland, August 27–29, 2003.
82. IEEE Conference on E-Commerce (CEC03), Newport Beach, CA, June 24–27 2003.
83. IEEE International Conference on Electronic Commerce (CEC'03), Newport Beach, CA, June, 2003.
84. 12th International World Wide Web Conference (WWW2003), Budapest, Hungary, May 20–24, 2003.
85. 1st Workshop on Semantics in Peer-to-Peer and Grid Computing at WWW 2003, Budapest, Hungary, 20 May 2003.
86. 1st International Conference on Ontologies, DataBases, and Applications of Semantics for Large Scale Information Systems (ODBASE'02), October 29–31, 2002.
87. 3rd International Symposium on Multi-Agent Systems, Large Complex Systems, and E-Businesses (MALCEB'2002), Erfurt, Thuringia, Germany, 8–10 October 2002.
88. 3rd Annual International Conference on Object-oriented and Internet-based Technologies, Concepts, and Applications for a Networked World, Thuringia, Germany, October 7–10, 2002.
89. Net.Object Days 2002, Erfurt, Germany, October 7–10, 2002.
90. 6th International Workshop CIA-2002 on Cooperative Information Agents, Madrid, Spain, September 18–22, 2002.
91. 2nd International Workshop on Databases, Documents, and Information Fusion (DBFusion 2002): Information Integration and Mining in Databases and on the Web, University of Karlsruhe, Germany, July 4–5, 2002.
92. 1st International Semantic Web Conference (ISWC-2002), Sardinia, Italy, June 10–12, 2002.
93. 11th International World Wide Web Conference (WWW2002), Semantic Web Track, Honolulu, HI, May 7–11, 2002.
94. 1st WWW 2002 Workshop on Real World RDF and Semantic Web Applications, Honolulu, HI, May 7, 2002.
95. 5th International Workshop CIA-2001 on Cooperative Information Agents, Modena, Italy, September 6–8, 2001.
96. 6th International Conference on Cooperative Information Systems (CoopIS 2001), Trento, Italy, September 5–7, 2001.
97. International Semantic Web Workshop: Infrastructure and Applications for the Semantic Web, Stanford, CA, July 30–31, 2001.
98. Autonomous Agents 2001, Montreal, Canada, 28 May–1 June 2001

99. 2nd International Workshop on the Semantic Web (SemWeb'2001) at WWW10, Hong Kong, May 1, 2001.
100. International Workshop on Information Integration on the Web: Technologies and Applications, Rio de Janeiro, Brazil, April 9–11, 2001
101. 5th International Workshop on Groupware (CRIWG'99) September 21–24, 1999, Cancun, Mexico.
102. 3rd International Workshop on Cooperative Information Agents (CIA-99), Uppsala, Sweden, July 31–August 2, 1999.
103. 9th RIDE International Workshop on Information Technology for Virtual Enterprises, Sydney, Australia, March 23–24 1999.
104. 2nd International Conference on Interoperating Geographic Information Systems (Interop'99) , Zurich, Switzerland, March 10–12 1999.
105. CSCW Workshop on Adaptive Workflow Systems, Seattle, WA, November 14, 1998.
106. 5th International Conference of Foundations of Data Organization (FODO'98), Kobe, Japan, November 12–14, 1998.
107. 11th International Conference on Parallel and Distributed Computing Systems, Chicago, IL, September 2–4, 1998.
108. International Workshop on Workflow Management (WFM'98), Vienna, Austria, August 28, 1998.
109. 3rd IFCIS International Conference on Cooperative Information Systems (CoopIS'98), August 1998, New York, NY.
110. ACM SIGMOD Conference, Seattle, Washington, June 2–4, 1998.
111. 18th International Conference on Distributed Computing Systems, Amsterdam, Netherlands, May 1998.
112. 6th International Conference on Extending Data Base Technology (EDBT'98), Valencia, Spain, March 23–27, 1998.
113. 2nd International Conference on Visual Information Systems (Visual '97), San Diego, CA December, 15–17, 1997.
114. International Conference on Management of Data (COMAD'97), Madras, India, December 1997.
115. 7th IFIP 2.6 Working Conference on Database Semantics (DS–7), Leysin, Switzerland, October, 7–10, 1997.
116. 8th International Conference on Database and Expert Systems Applications (DEXA'97), Toulouse, France, September 1–5, 1997.
117. 2nd IEEE Metadata Conference, Silver Spring, Maryland, September 16–17.
118. 1st IFCIS Conference on Cooperative Information Systems (COOPIS'96), Belgium, June 1996.
119. 5th International Conference on Extending Database Technology (EDBT'95), Avignon, France, March 1996
120. 5th IEEE RIDE Workshop on Interoperability of Nontraditional Databases (RIDE-IND'96), 1996.
121. 12th IEEE International Conference on Data Engineering, New Orleans, LA, February 1996.
122. 7th International Conference on Management of Data (COMAD'95), Pune, India, December 1995

123. 14th Object-oriented and Entity Relationship Modeling'95 (OO–ER95), Gold Coast, Australia, December 1995.
124. 4th International Conference on Information and Knowledge Management, Baltimore, MD, November 1995
125. 2nd Next Generation Information Technologies and Systems (NGITS–95), Israel, June 1995.
126. IFIP DS–6 Database Application Semantics, Georgia, May 1995.
127. 11th IEEE International Conference on Data Engineering, Taipei, Taiwan, April 1995.
128. 4th International Conference on Extending Database Technology (EDBT 95), Cambridge, UK, March 28–31, 1995.
129. 20th International Conference on Very Large Data Bases (VLDB 94), Chile, September 1994.
130. 1st International Conference on Application of Databases (ADB 94), Vadstena, Sweden, June 1994.
131. 2nd International Conference on Cooperative Information Systems (CoopIS 94), Toronto, Canada, May 17–20, 1994.
132. 10th IEEE International Conference on Data Engineering, April 1994.
133. 2nd International Conference on Information and Knowledge Management, 1993.
134. 9th IEEE International Conference on Data Engineering (ICDE 1993), Vienna, Austria, April 19–23, 1993.
135. 2nd International Conference on Parallel & Distributed Information Systems (PDIS 93), San Diego, CA, January 1993.
136. IFIP DS-5 Semantics of Interoperable Data Base Systems-92, Australia, November 1992.
137. 2nd International Workshop on Research Issues on Data Engineering: Transaction and Query Processing (RIDE-TQP), Tempe, AZ, February 2-3, 1992.
138. 8th IEEE International Conference on Data Engineering (ICDE 92), Tempe, AZ, February 1992.
139. 1st International Conference on Information and Knowledge Management (1991).
140. 21st International Conference on Distributed Computing Systems (ICDCS-21), Phoenix, AZ, April 16–19, 1991.
141. 1st International Workshop on Research Issues on Data Engineering: Interoperability in Multidatabase Systems (RIDE-IMS), Kyoto, Japan, April 7–9, 1991.
142. 7th IEEE International Conference on Data Engineering (ICDE 91), Kobe, Japan, April 8–12, 1991.
143. COMAD/Management of Data, Bombay, India, December 1991.
144. 1st International Conference on Databases, Parallel Architectures and their Applications (PARBASE-90), Miami, FL, March 6–9, 1990.
145. 2nd International Symposium on Database in Parallel and Distributed Systems, 1990.
146. 1st International Symposium on Database in Parallel and Distributed Systems, 1988.
147. 4th IEEE International Conference on Data Engineering, Los Angeles, CA, February 1988.

Other Services (Sessions, Reviews, Funding Panels)

Services to National and international funding Agencies as Proposal Reviewer

- ➢ USA, National Science Foundation, since 1987 (reviewed numerous research proposals for funding). Served on many panels and provided strategic input (e.g., CISE Area of Study on Web Information Systems in 2005)
- ➢ Belgium (Flanders), SBO (Strategic Basic Research) Programme, 2008
- ➢ Austria, Fonds zur Förderung der wissenschaftlichen Forschung (FWF), 2006
- ➢ Switzerland, Swiss National Foundation, 2005
- ➢ Singapore, Agency for Science, Technology & Research (A*STAR), 2005
- ➢ Canada, National Science and Engineering Research Council, NSF-equivalent national research sponsorship organization (reviewer for several years)
- ➢ Australian Research Council, Expert Assessor of International Standing, 2003
- ➢ Austria, Fonds zur Förderung der wissenschaftlichen Forschung (FWF), 1999
- ➢ Norway, Research Council of Norway, 1996, 1997, 1998, 2002, 2003
- ➢ The Netherlands, Netherlands Organization for Scientific Research (NOW), 2003, 2005
- ➢ Israel,   Israel Science Foundation, 1996
- ➢ Hong Kong , National Research Grants Council, 1996
- ➢ Ireland, Science Foundation, 2001
- ➢ German-Israeli Foundation for Scientific Research and Development, 2006

Chaired Technical Sessions

DWP2005, WWW2004 (5/2004), WWW2003 (5/2003), 2nd International Workshop on the Semantic Web (5/2001), 8th IFIP 2.6 WC on Database Semantics (DS–8) (01/1999), IFIPWG 11.5 Conference on Integrity and Control in Information Systems (12/1997), 12th ICDE (02/96), 11th ICDE (04/1995), 4th IEEE RIDE (03/1995), 10th ICDE (05/1995), 9th ICDE, 04/1993), 7th ICDE (04/1991), 6th ICDE (02/1990), Etc.

Services to Journals as Referee

IEEE TKDE, VLDB Journal, ACM TODS, ACM TOIT, ACM TOIS, ACM Computing Surveys, Information Systems, Intelligent Information Systems, Distributed Systems Engineering, IEEE Transaction on Computers, Computer, IEEE Transaction on Software Engineering, BMC Bioinformatics, Journal of Selected Areas in Communication, Information Sciences, Software-Practice and Experiences, Information and Software Technology, Information Technology & Management, and practically all journals in the area of work.

Society Memberships

Senior Member (2003–2005; Fellow thereafter), Member, IEEE and IEEE Computer Society, including Technical Committee on Database Engineering, 1981–present. Member, Association for Computing Machinery, including SIGMOD, 1981–present, SIGGROUP, 1997–2002.

Curriculum Development (Initiatives and Courses)

Initiatives

- ➢ On the steering committee of New Media Institute, approved starting Fall 2000. A campus-wide initiative covering many disciplines.
- ➢ On the steering committee of Masters in Internet Technology program, expected to be approved starting Fall 2000. An interdisciplinary professional degree program proposed

by Management Sciences (Business School), Computer Science, and School of Journalism.

New Courses Defined/Offered

➢ Information Integration and Analysis, CS 790-03, offered at Wright State University starting Spring Quarter 2007.
➢ **Semantic Web Services and Processes**, CSCI 8351, defined and offered Spring 2004, (formerly Semantic Enterprise, defined and offered Fall 2002). For advanced graduate students, the earliest offering of a course on this topic in the world.
➢ **Semantic Web**, defined and offered Spring 2002. For advanced graduate students, one of the earliest offerings of a course on this topic in the world.
➢ **Global Information Systems: Promises and Challenges**, defined and offered since 1995. For Computer Science seniors and graduate students; often taken by students in other disciplines. One of the earliest Internet-based courses, with innovative mix of internet technologies and information systems.
➢ **Enterprise Integration**, defined and offered from 1995 to 2000. A one-of-a-kind course for Computer Science graduate students, sometimes taken by students in management. Covers issues in complex enterprise-wide solutions in the real world. Main emphasis is on distributed computing and information systems and e-commerce technologies, but also shares real-world experiences.
➢ **Internet Programming**, 2000. For the new Masters in Internet Technology program.
➢ **Internet Information Systems**, 2000. For the new Masters in Internet Technology program.

External Curriculum Advising/Accreditation:

➢ Program Evaluator/Accreditation Visitor for the Computer Sciences Accreditation Board (sponsored by IEEE and ACM), 1993–1998.

Instruction and Academic Services (since 1994)

Courses taught

CS 790	Web3.0: Social, Services, Sensor Semantic Web	W'09
CS 795	Independent Study	F'08
CS 875	Semantic Web	F'08
CS 837	Advanced Database Systems	W '95
CS 490	Special Topics in Computer Science	Sp '95
CS 690	Special Topics in Computer Science	Sp '95
CS 203	Programming Project Design	F '95
CS 490	Global Information Systems	W '96
CS 690	Global Information Systems	W '96
CS 835	Enterprise Integration	W '96
CS 203	Programming Project Designs	F '96
CS 490	Global Information Systems	W '97
CS 690	Global Information Systems	W '97
CS 835	Enterprise Integration	W '97
CS 203	Programming Project Designs	F ' 97

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        CS 490     Global Information Systems......................................W '96
        CS 690     Global Information Systems......................................W '98
        CS 835     Enterprise Integration ...........................................W '98
        CS 690     Advanced Global Information Systems ......................Sp '98
      CSCI6350     Global Information Systems......................................F '99
      CSCI8350     Enterprise Integration ...........................................Sp '99
      CSCI8350     Enterprise Integration (w/ Arpinar)...........................Sp '00
      CSCI8350     Enterprise Integration (w/ Cardoso) ..........................Sp '01
      CSCI8350     Semantic Web......................................................Sp '02
      CSCI8350     Semantic Enterprise.............................................F'02
 CSCI4350/6350     Global Information Systems.....................................S'03
      CSCI8350     Semantic Web......................................................F'03
      CSCI8351     Semantic Web Services & Processes .........................S'04
      CSCI8350     Semantic Web......................................................F'04
 CSCI4350/6350     Global Information Systems.....................................S'05
      CSCI8350     Semantic Web......................................................F'05
      CSCI8351     Semantic Web Services & Processes .........................S'06
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Supervision of Student Research as Major Professor

➢ Vipul Kashyap, PhD, "Information Brokering over Heterogeneous Digital Data,"
   October 1997. (Note: Student's degree is from Rutgers University, NJ, but Dr. Sheth is his
   research adviser.)
➢ Devashish Worah, MS, "Error Handling and Recovery for the ORBWork Workflow
   Enactment Service in METEOR," June 1997.
➢ Srilekha Mudumbai, MS, "ZEBRA Image Access System," June 1997.
➢ Selvam Velmurugan, MS, "Collaborative Tele-Consulting for Healthcare: CATCH,"
   September 1997.
➢ Krishnan Parsuraman, MS, "Agent Support in the InfoQuilt System," December 1998.
➢ Clemens Bertram, MS, "Metadata and Ontology Based Query Processing in the InfoQuilt
   System, December 1998.
➢ Vineet Mahajan, MS, "A Multi-Agent System for Metadata Management and Information
   Brokering," December 1999.
➢ Subrajit Ray, MS, "Ontology-based Media Independent Correlation of Information
   Accross Heterogeneous Distributed Sources," December 1999.
➢ Mukesh Guntamadugu, MS, "MÉTIS: Automating Metabase Creation from Multiple
   Heterogeneous Sources," July 2000.
➢ Dilpreet Singh, MS, "An Agent Based Architecture For Query Planning And Cost
   Modeling Of Web Sources," July 2000.
➢ Sriram Lakshminarayan, "Semantic Interoperability in Digital Libraries using Inter–
   Ontological Relationships," July 2000.
➢ Narayan Palsena, MS, "A Collaborative Approach to Learning using Information
   Landscapes," 2000.
➢ Zhongqiao Li, MS, "Using Collaboration Task in OrbWork Enactment System for
   METEOR Workflow Management System, August 2000.

- Zongwei Luo, PhD, Knowledge Sharing, Coordinated Exception Handling, and Intelligent Problem Solving for Cross–Organizational Business Processes, February 2001.
- Sanjeev Thacker, MS, "Knowledge Modeling for Study of Domains and Inter–domain Relationships – A Learning Paradigm," July 2001.
- Shuchi Patel, MS, "Planning and Optimizing Semantic Information Requests on Heterogeneous Information Sources Using Semantically Modeled Domain and Source Characteristics,"July 2001.
- Wonjung Kim, MS, "Knowledge Based Personalization," December 2001.
- Madhan Arumugam, M.S., "The Peer-to-Peer Semantic Web: A Distributed Environment for Sharing Semantic Knowledge on the Web," December 2001.
- Jorge Cardoso, PhD, Quality of Service and Semantic Composition of Workflows, August 2002.
- Kaarthik Sivashanmuga, MS (co-adviser: J. Miller), "The METEOR-S Framework for Semantic Web Process Composition," August 2003.
- Abhijit Patil, MS METEOR-S Web Service Annotation Framework, December 2003.
- Christian Halaschek-Wiener, MS (co-adviser: I.B. Arpinar) "A Flexible Approach for Ranking Complex Relationships on the Semantic Web,"
- Rohit Aggrawal, MS, August 2004. (co-adviser: J. Miller).
- Swapna Onudhakar, MS, December 2004.
- William Milnor MS (co-adviser), Discovering Informative Subgraphs in RDF Graphs, August 2005.
- Ravi Pavagada, MS, IR based Search in Semantic Web, Summer 2006. *
- Bilal Gonen, MS, Semantic Browser, Summer 2006. *
- Kunal Verma, PhD (co-adviser), Configuration and Adaptation of Semantic Web Processes, July 2006.
- Cartic Ramakrishnan, PhD, "Extracting, Representing and Mining Semantic Metadata from Text: Facilitating Knowledge Discovery in Biomedicine," September 2008.
- Matthew Perry, PhD, "A Framework to Support Spatial, Temporal and Thematic Analytics over Semantic Web Data," July 2008.

External Academic Advising

- Member of Ph.D. dissertation committee for Ph.D. candidate Haibo Zhao, University of Georgia, Athens, GA, 2009.
- Member of Ph.D. dissertation committee for Ph.D. candidate Fabian M. Suchanek, Saarland University, Saarbrucken, Germany, expected completion Dec 2008.
- External expert reviewer for Ph.D. candidate Manual Garcia Solaco, Facultat d'Informatica de la Universitat Politechica de Cataluna, Barcelona, 1994.
- External adviser and dissertation committee member for Ph.D. student George Karabatis, Univ. of Houston, "Management of Interdependent Data in a Multidatabase Environment: A Polytransaction Approach," May 1995.
- Member of Ph.D. dissertation committee for Quiang Zhu, "Estimating Local Cost Parameters for Global Query Optimization in a Multidatabase System," University of Waterloo, Canada, August 1995.

➢ Member of Ph.D. dissertation committee (Jury) for Philippe Thiran, Legacy database federation. A combined forward–Reverse approach, Institut d'Informatique, F.U.N.D.P. (Univ. of Namur), Belgium, September 2003.

Supervised research of Eduardo Mena (Ph.D. candidate, Basque State University, Spain) during his one year work at LSDIS Lab, UGA in 1996 (12 months).
Supervising research of Isabel Scheiding (Ph.D. candidate, University of Frankfurt, Germany) during her work at LSDIS Lab, UGA between July 1997 and December 1997.
Supervised research of Tascisio Lima (Ph.D. student, University of Brazil) during his work at LSDIS Lab, UGA, August 1998- June 2000.

Current Doctoral Students (as of 5/2006, partial list)
Kemafor Anyanwu, Cartic Ramakrishnan, Matt Perry, Angela Madoko, Satya Sahoo, Karthik Gomadam, Christopher Thomas, Meenakshi Nagarajan, Ajith Ranabahu, Pablo Mandes, Prateek Jain.

Post Doctoral and Research Fellow Supervision
Yanbo Han (PostDoc), Chinese Academy of Sc., 1995–1997; Eduardo Mena (Ph.D. candidate, "OBSERVER: An Approach for Query Processing in global Information Systems based on Interoperation across Pre-exisiting Ontologies," Basque State University, Spain), Basque State U., 1996–1998; Isabel Scheiding (Ph.D. candidate, University of Frankfurt, Germany), 7/1997–12/1997; Tascisio Lima (Ph.D. student, University of Brazil), 8/1998–6/2000; Shengli Wu, U. Sheffield, 2000–2002; I.B. Arpinar, METU–Turkey, 2000–2002; Farshad Hakimpour, U. Zurich, Switzerland, 2005–2006.

University and Public Service
Served as the primary consultant and directed development to benefit UGA administration in the form of CAPA for the Vice President for Academic Affairs (7/96–6/97) and GradWeb for the Graduate School (7/97– 6/97). Both are fully functional/operational Web-based applications.

➢ Institute of Bioinformatics, membership committee, 2004–present.
➢ GIScience Faculty Resource at UGA, 1997– present. Alternate UCGIS rep. for several years.
➢ Participation in multicultural and underrepresented group related activities:
- Panel: "Road Less Traveled: Entrepreneurship & Leadership," 2006 Alumni Networking & Professional Development Conference, organized by UGA Multicultural Programs, March 25, 2006.
- Mentored one faculty and one student under 1995 Summer Undergraduate Research Program for Minority Students and Faculty in Minority Institutions.
- Mentored two students under 1996 Summer Undergraduate Research Program for Minority Students.

Service provided in the form of committee participation at UGA–CS department.

➢ Member of Graduate Faculty, 1994 – present.

- ➢ Member: Graduate School Policy Committee, Wright State University, 2008-
- ➢ Chair, Department Graduate Studies Committee, Wright State University, 2008-
- ➢ Participation in Departmental Committees at UGA–CS department:
  - Equipment Committee, 1994 – 2006.
  - Faculty Search Committee, 1995, 2000, 2004, 2009.
  - Graduate Admissions Committee, also Aid Committee, 1996 – 2006, 2008 – 2010.
  - Space Committee, 1997 – 1998.