

Professor Amit P. Sheth

Amit Sheth is an Educator, Researcher and Entrepreneur. He is the LexisNexis Ohio Eminent Scholar, an IEEE Fellow, and the executive director of Kno.e.sis- the Ohio Center of Excellence in Knowledge-enabled Computing. Kno.e.sis is a multidisciplinary Ohio Center of Excellence in BioHealth Innovation involving computer scientists, cognitive scientists, biomedical researchers and extensive clinical collaborations. It has the largest US academic research group in the area of Semantic Web. It also has very high publication impact in World Wide Web (WWW) in recent years, sharing 2nd place among universities in the world for 5-yr impact (<http://j.mp/www-Mar13>) and among top 10 universities in the world based on 10-yr impact (<http://j.mp/www-Jun14>). Earlier, Dr. Sheth was a professor at the University of Georgia, where he started the LSDIS lab in 1994. His professional appointments also includes senior scientist/staff positions in R&D groups at Bellcore, Unisys, and Honeywell, as well as founding and managing three startups in the roles of COB, CEO, SrVP, CTO and Chief Scientist.



Sheth is working towards a vision of Computing for Human Experience incorporating semantics-empowered Physical-Cyber-Social computing and Smart Data. His recent work focuses on Web 3.0 involving enterprise, social, sensor/IoT data and applications, as well as services and cloud interoperability. In the past, he has extensively worked on federated databases, semantic interoperability and workflow management. Since founding Kno.e.sis, he has predominately been involved in multidisciplinary research with key collaboration and application areas in healthcare and life sciences (incl., biomedicine, translational, public health), defense/intelligence, manufacturing science, human/social/economic deveopment, etc. He is also intimately involved in open source activities, social entrepreneurship, technology transfer and licensing, and commercialization, as he continues to seek real-world impact of research.

As an educator: Sheth's most prized achievement is the exceptional success of his past advisees, who have successfully competed against graduates from top 10 universities. Several of his students have recived prestigious awards and fellowships, two of them have given keynotes at significant events before completing their PhD, and nine (about 50%) of his former PhD students have over 1000 citations each, including one who is at the 5th position in WWW based on 10-yr impact in the world. They are employed at major research universities (North Carolina State Univ., Case Western Reserve Univ., etc.), top industry research labs (IBM Research Almaden and Watson – three of them in the prestigious IBM's Watson for Life Science division, Samsung Research, etc.), top technology companies (CISCO, Amazon, etc), hold executive positions and are successful entrepreneurs. Their high demand is demonstrated by first year compensation exceeding \$200K for a PhD advisee and \$120K for several of his MS advisees. Sheth has demonstrated academic initiatives and innovations in the form of initiating/advising new academic programs (lastest on Big and Smart Data Sciences), on-line teaching, international educational and research collaborations, and extensive tutorial presentations to academic and professional audiences.

As a researcher: His h-index of 87 (i100 > 72) and 29,000+ citations to his publications places him among the top 100 in all of Computer Science in the world (37th based on 10 yr impact, 79th all years), top 1-3 in WWW (based on 5, 10 or all-years) and top 20 in databases (all years) [based on

h-index data from Microsoft Academic Search: <http://j.mp/MAS-a; all data as of March 2013>. He has been a PI of numerous competitive research grants, totaling over \$20 million, sponsored by federal agencies (NSF, NIH, NIST, DARPA, AFRL, etc) as well as industry (Microsoft Research, IBM Research, HP labs, etc.). Additional \$5million+ has been awarded to support his technology commercialization and R&D efforts. During 2010 and 2011, his own research expenditures exceeded \$1million/year (directly supporting ~25 students and postdocs including 15-18 PhD students) and \$2million for the Kno.e.sis Center. He is on several journal editorial boards (including IEEE Internet Computing), is the EIC of the International Journal on Semantic Web and Information Systems (IJSWIS), joint EIC of Distributed and Parallel Databases (DAPD), and a co-editor of two Springer book series (Semantic Web and Beyond: computing for Human Experience, and Advanced Database Systems). He has (co-)organized over 75 international events (conferences/workshops), served on 200+ PCs and given 49 keynotes.

As an Entrepreneur, Technologist, Executive and Leader with Real-World Impact:

Sheth's research has led to founding of three companies (one acquired, one sustaining, one recently formed) that have resulted in significant regional impact and development of high-tech jobs. His work has also resulted in several commercial products and many deployed applications in financial, health care, biomedical and Internet domains. He has a long history of leading multidisciplinary, multi-institutional and multinational activities. In health care and life sciences areas, his intensive collaborations with clinicians as well as biomedical researchers, have resulting in a large number of research and commercial tools, systems and applications (<http://knoesis.org/amit/hcls>).



As a leader, he has been able to demonstrate ability to create world-class entities to achieve unprecedented institutional outcomes. Kno.e.sis with its ability to position Wright State University among the top 10 in the world in the area of World Wide Web, and earlier similar success for the LSDIS lab and University of Georgia are key exemplars. His leadership approach includes ability to create a strong ecosystem with focus on vision, people, and resources. He has pursued vision with a multidisciplinary scope placing bets of high risk and high reward topics well before those topics have ascended the hype curve, developed highly collaborative environment that attracts exceptional members (e.g., faculty, staff, student), personally and collectively securing highly competitive funds, and ensuring exceptional outcomes (e.g., student success, significantly enhanced faculty productivity since the center/lab, technology transfer and economic development). For the companies he has founded, he has also played executive roles encompassing Chairman of the Board, President and CEO, SrVP, CTO and Chief Scientist, supervising a full range of activities including fund raising, finance, customer acquisition/sales, business development and marketing, engineering, recruiting and training. His second company grew to 30+ employees (with majority coming from the university) before it was acquired and spent \$7M in local payroll. He has served (and continues to serve) on technology and business advisory boards and in a variety of advising roles including international research projects, academic programs, and startups. He has had a long-term interest in higher education, and has given a number of presentations covering policy and strategic issues to policy and decision makers.

Education

Ph.D.	1985	Ohio State University	Computer & Information Science
M.S.	1983	Ohio State University	Computer & Information Science
B.E.	1981	Birla Institute of Tech. & Science	Electrical & Electronics Engineering (Hons) Pilani, India

Academic Positions/Appointments

2013–	Executive Director, Kno.e.sis- the Ohio Center of Excellence on Knowledge-enabled Computing at Wright State University; a state-wide multidisciplinary Center of Excellence for BioHealth Innovation.
Jan 2007 –	LexisNexis Ohio Eminent Scholar, Professor, Computer Science & Engineering., Wright State University, Dayton, OH. Director and Founder, Kno.e.sis Center (University-level center since Jan 2007, and Ohio Center of Excellence since Jan 2010). Professor, Biomedical Sciences (BMS) PhD program (2009-).
2001-2007	Member/Professor, Faculty of Engineering, University of Georgia
1994 – 2006	Director, Large Scale Distributed Information Systems (LSDIS) Lab, Athens, GA
1998 – 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 – Jun 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& Appointments

July 2013 -	Founder, Member of the Board and CTO (part time), Twitris, Inc.
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

More at <http://knoesis.org/amit> , <http://www.linkedin.com/in/amitsheth>

Vision and Leadership (see: <http://knoesis.org/vision>)

- Computing for Human Experience
- Physical Cyber Social Computing
- Smart Data

Research Areas

- **Knowledge-enabled Computing and Computing for Human Experience:** Creation, extraction and application of knowledge and knowledge-based techniques for cyber-physical and socio-technical systems, including improved perception and semantic techniques
- **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.

Research Funding / Grants (total research funds between \$15M and \$20M)

Federal Funds: Role PI unless indicated otherwise

- **NIDA National Early Warning System Network (iN3): An Innovative Approach**, NIDA/NIH R56, ~300K, in process of being funded, Joint PIs: Robert Carlson, Amit Sheth, Ed Boyer (U. Mass).

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- **Trending: Social Media Analysis to Monitor Cannabis and Synthetic Cannabinoid Use,** NIH R01 (NIDA grant DA039454, ~\$1,500K, Aug 15, 2014-Aug 14, 2017 (Joint PI with: Raminta Daniulaityte; Co-PIs: Robert Carlson, TK. Prasad, Ramzi Nahhas, Sylvia Martins (Columbia), Edward W. Boyer (U-Mass)).
- **Software and Hardware Infrastructure for Energy Efficient Large Scale Complex Language Modeling,** \$492,500, Sep 30, 2013-Sep 29, 2014. (PI: Shaojun Wang, co-PIs: Amit Sheth, Keke Chen, Junjie Zhang)
- **Federated Semantic Services Platform for Open Materials Science and Engineering,** Air Force Research Labs, \$550,000, starting July 15 2013-July 14, 2016.(co-PIs: T.K. Prasad, Raghu Srinivasan)
- **Towards Commercialization of Twiris- a system for collective intelligence,** National Science Foundation, \$50,000, July 1, 2013- June 30, 2014.
- **Materials Database Knowledge Discovery and Data Mining,** Air Force Research Labs, \$190,000, starting June 2013. (co-PIs: T.K. Prasad, Raghu Srinivasan)
- **SoCS: Collaborative Research: Social Media Enhanced Organizational Sensemaking in Emergency Response,** National Science Foundation, \$480,000, September 2011. Supplement granted, \$16,000.(CoPIs: Srinivasan Parthasarthy, Valerie Shalin, John Flach).
- **EAGER: Expressive Scalable Querying over Linked Open Data,"** National Science Foundation \$125,828, September 2011-August 2013. Supplement granted: \$16,000.(CoPIs: Pascal Hitzler)
- **A Study of Social Web Data on Buprenorphine Abuse Using Semantic Web Technology,"** Department of Health and Human Services, National Institute on Drug Abuse (NIDA), \$401,500, through July 2013. (joint PI: with Raminta Daniulaityte)
- **Trusted Semantic Sensor Web to Support Decision making over Massive Amounts of Sensor and Social Data,** Air Force Research Labs – Sensor Directorate (via Prime: Riverside Research), \$81,539, June 2011 – December 2012.
- **T040: LVC Sensors Integration for Data Fusion in Operations and Training,** funded by the Air Force Research Lab through Ball Aerospace, \$306,000, November 2010-October 2013.
- **Trusted Semantic Sensor Network** funded by the Air Force Research Lab, \$176,890, February 2009-July 2010.
- **Architectures for secure semantic sensor networks for multi-layered sensing,** The Air Force Research Lab, OGC/DAGSI, \$63,281, June 1, 2008-May 31, 2009.
- **Education Partnership Agreement** for joint work on "Distributed Systems for Psychological Modeling," 711th Human Performance Wing, Air Force Research Laboratory, \$61,000.
- **Undisclosed 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.
- **Information Operations/Cyber Exploitation Research (ICER),** Air Force Research Lab – Sensor Directorate (via Prime: Ralph Woolpert Company), \$148,000, May - Dec 2010.
- **Undisclosed 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. (CoPI: T.K. Prasad)
- **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-February 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.

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- **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 Scalable 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.
- PI of research grants/contracts of over \$4 million from DARPA, Army Research Lab and other sources prior to joining UGA.
- PI of research grants/contracts of over **four million dollars** from DARPA, Army Research Labs and other sources before joining UGA..

Industry/Consortia/VC Funds

- **Homeland Security Workshop**, Principle Investigator (with co-PIs E. Lynn Usery, I. Budak Arpinar, Xiaobai Yao), UCGIS, \$15,000, August 2003–July 2004.
- Led as founder/CEO/SrVP acquisition of ~\$5 million in Venture and commercial funding for R&D including \$2.4 million **Taalee, Series A. VC funds led by Redwood Ventures, Oct. 1999.** Over \$7million invested in local economy during university spin-off Taalee/Voquette before its acquisition/merger (1999-2002).
- **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–December 1998.

State and University Funds: Role PI unless indicated otherwise

- **Education Partnership Agreement between Wright State and Wright Patterson Air Force Base**, 711th Human Performance Wing, Air Force Research Laboratory \$61,000.
- **Twitris- a system for collective intelligence**, National Science Foundation, \$30,000, \$50,000, July 2013.
- **kHealth enabled health Monitoring, Epidemiology & Public Health Research**, Office of Vice President for Research, \$40,000, June 17, 2003-December 31, 2014.
- **Center of Excellence Kno.e.sis Operating Award**, Wright State University, \$330,000, July 2010-June 2013.
- **Advanced Data Management Tuition**, Wright State University Graduate School, \$126,000, January 20007-June 30, 2013.
- **Advanced Data Management Resource**, Ohio's Research Challenge, \$210,000, June 1, 2006-June 30, 2010.
- **Cloud Computing Collaboratory**, Wright State University, \$48,000, Co-PIs: J. Gallagher, K. Chen, Y. Pei, M. Raymer, TK Prasad, B. Wang, M. Rizki, S. Wang, P. Mateti, M. Liu
- **A Study of Social Web Data on Oxycontin Abuse Using Semantic Web Technology**, Wright State University Boonshoft Scholl of Medicine Department of Community Health, \$13,950, April 2, 2011-December 31, 2011
- **Major Collaboration/Infrastructure Grant**, “Advanced Data Management Resource for Biomedical Research,” Principal Investigator (WSU Co-PIs: M. Raymer, N. 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**, 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)**, Co-PIs: 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.

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- **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

- **Cardiology Semantic Analysis System**, ezdataintelligence (ezDI) LLC, \$100,000, (\$25,000 in 2011, renewed: 2012, 2013, 2014 at the same level.
- **Janya, Inc.**, \$25,150, "Enhancing Information Extraction with Linked Open Data," April, 2011.
- **Department of Community Health**, \$30,000, "A Study of Social Web Data on Oxycontin Abuse Using Semantic Web Technology," January, 2011.
- **Microsoft**, \$75,000 unrestricted gift, July, 2010.
- **Hewlett Packard**, \$45,000 for "Model Generation and Model Extension for Information and Knowledge Management," Competitive Research Excellence Award, June, 2010.
- **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)

- Microsoft Windows Azure Cloud-free access for the Kno.e.sis Center, March 2011.
- 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.

- 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.

Speeches and Talks

Keynote and Plenary Invited Talks at International Conferences/Workshops and Significant National/International Meetings [50]

1. "Smart Data - How you and I will exploit Big Data for personalized digital health and many other activities," Keynote at IEEE Big Data 2014, Bethesda, MD, October 28, 2014. [[Abstract](#), [Slides](#)]
2. "Semantic Technologies for Big Sciences including Astrophysics," Plenary talk at EarthCube End-User Workshop on Science-Driven Cyberinfrastructure Needs in Solar-Terrestrial Research, NJIT, New Jersey, NJ, Aug 13-14, 2014.
3. "Smart Data for you and me: Personalized and Actionable Physical Cyber Social Big Data," Featured Keynote at WORLDCOMP'14 - The 2014 World Congress in Computer Science, Computer Engineering, and Applied Computing, Las Vegas, NV, July 21, 2014. [[Abstract](#), [Video](#), [Slides](#), [Pictures](#)]
4. "Transforming Big Data into Smart Data: Deriving Value via harnessing Volume, Variety, and Velocity using semantic techniques and technologies", Keynote at the 30th IEEE International Conference on Data Engineering, Chicago, Illinois, Apr 2, 2014. [[Announcement](#), [Presentation/Details](#)]
5. Transforming Big Data into Smart Data: Deriving Value via harnessing Volume, Variety and Velocity using semantics and Semantic Web, Keynote at the SEBD2013: 21st Italian Symposium on Advanced Database Systems, June 30 - July 3 2013, Roccella Jonica, Italy.
6. Physical Cyber Social Computing: An early 21st century approach to Computing for Human Experience, Keynote at the WiMS2013: International Conference on Web Intelligence, Mining and Semantics, June 12-14, 2013, Madrid, Spain.
7. "Computing for Human Experience: Semantics empowered Cyber-Physical, Social and Ubiquitous Computing beyond the Web," Keynote at the OnTheMove Federated Conferences & Workshops (OTM 2011), Crete, Greece, October 17-21, 2011.
8. "Spatial Semantics For Better Interoperability and Analysis: Challenges and Experiences In Building Semantically Rich Applications In Web 3.0," Keynote at the 3rd Annual Spatial Ontology Community of Practice Workshop (SoCoP 2010), in conjunction with USGSReston, VA, December 3, 2010.

9. "Semantic Web, Powering Intelligent Web Applications," Luncheon Keynote at [Technology First's Technology Landscape 2013](#), May 16, 2010, Dayton, Ohio
10. "[Computing for Human Experience: Semantics empowered Sensors, Services, and Social Computing on Ubiquitous Web](#)," Keynote at the 4th International Conference on Digital Information Management ([ICDIM'09](#)), Ann Arbor, Michigan, November 1-4, 2009.
11. "[Computing for Human Experience: Semantics empowered Sensors, Services, and Social Computing on ubiquitous Web](#)," Keynote at 4th European Conference on Smart Sensing and Context ([EuroSSC 2009](#)), Guildford, United Kingdom, September 16-18, 2009.
12. "[Extending SPARQL to Support Spatially and Temporally Related Information](#)," Keynote at Semantic Technology Conference, San Jose, CA, June 16, 2009.
13. "[Computing for Human Experience: Sensing, Perception, Semantics, Social Computing, Web 3.0, and beyond](#)," Keynote at 20th Midwest Artificial Intelligence and Cognitive Science Conference ([MAICS 2009](#)), Fort Wayne, Indiana, April 18-19, 2009.
14. "[Computing for Human Experience: Sensors, Perception, Semantics, Web N.0, and Beyond](#)," Keynote at the 3rd Asian Semantic Web Conference ([ASWC 2008](#)), Bangkok, Thailand, February 2-5, 2009.
15. "[Relationship Web: Trailblazing, Analytics and Computing for Human Experience](#)," Keynote at 27th International Conference on Conceptual Modeling ([ER 2008](#)), Barcelona, Spain, October 20-23, 2008.
16. "[Semantics to Empower Services Science: Using Semantics at Middleware, Web Services and Business Levels](#)," CSIRO, Canberra, Australia, August 11, 2008.
17. "[Empowering Translational Research using Semantic Web Technologies](#)," Plenary Invited talk at the Ohio Collaborative Conference on Bioinformatics (OCCBIO), Toledo, OH June 2-4, 2008.
18. "[Semantic Web for Health Care and Biomedical Informatics](#)," Keynote at [NSF Biomedical Informatics Workshop: Expanding Secondary Use of Health Data](#), December 4–5, 2007.
19. "[Semantic Web techniques empower perception and comprehension in Cyber Situational Awareness?](#)Invited talk at the, [ARO Cyber Situational Awareness Workshop](#), Fairfax, VA, November 14–15, 2007.
20. "[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.
21. "[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.
22. "[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.
23. "[{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,

24. "Semantics to energize the full Services Spectrum: Ontological approach to better exploit services at technical and business levels," Keynote Address at 2nd Biennial Beta Conference, 2006: Management of Service Operations, Eindhoven, Netherlands, September 14–15, 2006.
25. "Semantics to energize the full Services Spectrum: Ontological approach to better exploit services at technical and business levels," Invited Talk for inauguration invitational event for Research School on Service-Oriented Systems Engineering, Hasso-Plattner-Institute, Potsdam, Germany, June 22, 2006.
26. "Semantic Web applications in Financial Industry, Government, Health Care and Life Sciences," Keynote Address at AAAI Spring Symposium on Semantic Web Meets eGovernment, Stanford University, Palo Alto, CA, March 28, 2006.
27. "Semantics Enabled Industrial and Scientific Applications: Research, Technology and Deployed Applications," Keynote Address at 1st Online Metadata and Semantic Research Conference, November 21–30, 2005.
28. "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.
29. "Semantic Web Applications in Industry: Examples in Risk & Compliance" Part I, & "Semantic Web & Semantic Web Services: Applications in Health Care and Scientific Research," Part II Keynote Address, IFIP Working Conference on Industrial Applications of Semantic Web (IASW-2005), Jyväskylä, Finland, August 25–27, 2005.
30. "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](#))
31. "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.
32. "What can Semantic do for Bioinformatics," Keynote Address, Russian Conference on Digital Libraries (RCDL 2003), Saint Petersburg, Russia, October 29, 2003.
33. "Semantics-Powered Bioinformatics: What, Why and How of Semantic Search, Integration, Processes and Analytics," Invited Talk at Semantic Web Technologies for Science and Engineering Workshop, Sanibel Island, FL, October 20, 2003.
34. "Semantic Web in Action (also known as Ontology-driven information search, integration and analysis)," Keynote Address at Net Object Days 2003 and MATES03, Erfurt, Germany, September 23, 2003.
35. "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.
36. "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.
37. "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,

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38. "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.
39. "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.
40. "Content Management, Metadata, and Semantic Web," Inaugural Keynote Address, NetObjectDAYS, Erfurt, Germany, September 11, 2001.
41. "Semantic Web and Information Brokering: Opportunities, Early Commercialization, and Challenges," Keynote Address, Workshop on Semantic Web: Models, Architectures and Management, Lisbon, Portugal, September 21, 2000
42. "Information Brokering in Digital Media," Keynote Address, 3rd International Workshop on Cooperative Information Agents CIA-99, Uppsala, Sweden, July 31–August 2, 1999.
43. "Processes in the Networked Economy: Portals, Vortex and Dynamic Trading Processes," Keynote Address, SAPBM Workshop at the 11th Conference on Advanced Information Systems Engineering Heidelberg, Germany June 14-18, 1999
44. "Semantic Interoperability and Information Brokering in Global Information Systems," Keynote Address, 3rd IEEE Metadata Conference, Bethesda, MD, April 6–7, 1999.
45. "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.
46. "Real-world Relevant Research Challenges in Workflow," Keynote Address, EDBT Workshop on Workflow Management Systems, Valencia, Spain, March 27–28, 1998.
47. "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.
48. "Semantic Interoperability in Infocosm: Moving Beyond Infrastructural and Data Interoperability in Federated Information Systems," Keynote Address, International Conference on Interoperating Geographical Information Systems (Interop '97), Santa Barbara, CA, December 3, 1997.
49. "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.
50. "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. "Semantics of Perception: Towards a Semantic Web Approach to Machine Perception", Invited talk given at the Dagstuhl Seminar on Cognitive Approaches for the Semantic Web, Schloss Dagstuhl, May 28 – June 01, 2012.

2. "Citizen Sensing Opportunities and Challenges in Mining Social Signals and Perceptions," 2011 Microsoft Research Faculty Summit, Redmond, WA, July 18-20, 2011. [[PPT](#), [PDF](#)].
3. "Active Perception Over Machine and Citizen Sensing," with Cory A. Henson, 2011 Semantic Technology Conference (SemTech), San Francisco, CA, June 7, 2011.
4. "How To Make Linked Data More than Data," 2010 Semantic Technology Conference (SemTech2010), San Francisco, CA, June 21-25, 2010.
5. Semantics empowered Understanding, Analysis and Mining of Nontraditional and Unstructured Data, AFRL Data Mining Seminar, August 2009.
6. "Monetizing User Activity on Social Networks-Challenges and Experiences," with Meenakshi Nagarajan, Kamal Baid, and Shaojun Wang, The Beyond Search-Semantic Computing and Internet Economics 2009 Workshop, Redmond, Washington, June 10, 2009.
7. "Challenges of Creating a Knowledge-based Society: Education & Research for India & Gujarat," Invited talk at World Gujarat Conference: Chaalo Gujarat, August 30, 2008.
8. "Empowering Translational Research using Semantic Web Technologies," Ohio Collaborative Conference on Bioinformatics (OCCBIO), Toledo, OH, June 2-4, 2008.
9. "Semantic Sensor Web," with Cory Henson, Semantic Technology Conference, San Jose, CA, May 18-22, 2008.
10. "SA-REST: Using Semantics to Empower RESTful Services and Smashups with Better Interoperability and Mediation," with Karthik Gomadam, Semantic Technology Conference, San Jose, CA, May 18–22, 2008.
11. "Dynamic and Agile SOA using SAWSDL," with Karthik Gomadam, and Kunal Verma, Semantic Technology Conference, San Jose, CA, May 18, 2008.
12. "Semantic Sensor Web," Sensor Web Enablement (SWE) Working Group of the Open Geospatial Consortium ([OGC](#)), St. Louis, MO, March 26, 2008.
13. "Semantic Sensor Web," Special SICoP Conference, Building Semantic Interoperability Solutions for Information Sharing and Integration, Falls Church, VA, February 5, 2008.
14. "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.
15. "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.
16. "Relationship Web: Realizing the Memex vision with the help of Semantic Web," SemGrail 2007, Redmond, WA, June 21–22, 2007.
17. "Semantic Annotations for WSDL," with Jacek Kopecky (DERI Innsbruck), W3C Track at the 16th World Wide Web Conference (WWW2007), Banff, Canada, May 10, 2007.
18. "Semantic empowerment of Life Science Applications," Microsoft eScience Workshop, Cincinnati Children Hospital & Medical Center, October 14, 2006.
19. "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)

20. "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.
21. "Active Semantic Electronic Patient Records," Semantic Technology Conference, San Jose, CA, March 7, 2006.
22. "Autonomic Web Process," vision paper presented at the 3rd International Conference on Service Oriented Computing, Amsterdam, Netherlands, December 13, 2005.
23. "Semantic Technology in the Real World: Experiences and Lessons based on Enterprise Semantic Applications," Semantic Technology Conference 2005, San Francisco, CA, March 8, 2005.
24. "[Semantic Web Technology in Support of Bioinformatics for Glycan Expression](#)," W3C Workshop on Semantic Web for Life Sciences, Cambridge, MA, October 28, 2004.
25. "From Semantic Search & Integration to Analytics," KMWorld 2004, Santa Clara, CA, October 26–28, 2004.
26. "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.
27. "Semantic Web Technology Ontology Testbed," Ontology in Action Workshop, Banff, Canada, June 21, 2004.
28. "Semantic Visualization: Interfaces for exploring and exploiting ontology, knowledgebase, heterogeneous content and complex relationships, NASA Virtual Iron Bird Workshop, Monterey, CA, April 2, 2004.
29. "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.
30. "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.
31. "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.
32. "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.
33. "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.
34. "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.
35. "[Workflow and Process Automation in Information Systems: A Proposal for a Multidisciplinary Research agenda and Follow-up](#)," Invited Talk, NSF Invitational

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- Workshop on Distributed Information, Computation, and Process Management for Scientific and Engineering Environments, Virginia, May 15–16, 1998.
36. "From Process Modeling to Workflow Automation," Invited Talk, National Institute of Standards and Technology sponsored Process Information Technology Workshop, Gaithersburg, MD, March 13, 1998.
 37. "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.
 38. "Overview of Workflow Research and Technology," Invited Talk, DARPA Collective Actions Tools Workshop, March 1996.
 39. "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. "Semantics of Perception: Towards a Semantic Web Approach to Machine Perception," Invited talk given at the Dagstuhl Seminar on Cognitive Approaches for the Semantic Web, Schloss Dagstuhl, May 28 - June 01, 2012.
2. "Web 3.0 and beyond: Semantics empowered Cyber-Physical, Social and Ubiquitous Computing beyond the Web," Webinar organized by the Indo US Collaboration for Engineering Education (IUCEE), March 26, 2011.
3. "Computing for Human Experience: Semantics empowered Sensors, Services, and Social Computing on ubiquitous Web," SRI International, Menlo Park, CA, May 3, 2010.
4. "Semantic (Web) Technologies for Translational Research in Life Sciences," The School of Informatics and Computing Colloquium Series, Indiana University, February 5, 2010.
5. "Semantics to Empower Services for Agile Global Business," Indian Institute of Technology- Bombay, Powai, India, August 1, 2009.
6. "Semantics, Services, Sensor and Social Computing on the Web," Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT), Gandhinagar, India, July 29, 2009.
7. Amit P. Sheth (with Kamlesh Lulla and Sanjay Chaudhary), (presentation to and white paper for the Gujarat CM), Round Table on 'Regulatory & Policy Reform for Higher Education in Gujarat,' in conjunction with the International Conference on 'Reconnecting Gujarati Diaspora with its Homeland: Contribution to its Development with a Focus on Building a Knowledge Society' (Patan-Gandhinagar, Jan 17-19, 2009).
8. 'Semantic Sensor Web,' Advancing Digital Watersheds and Virtual Environmental Observatories II session of AGU Fall Meeting, San Francisco, CA, USA, December 17, 2008
9. "Computing For Human Experience," Department of Computer Science (DSIC) of the Technical University of Valencia (UPV), Valencia, Spain, October 24, 2008.
10. "Challenges of Creating a Knowledge-based Society: Education & Research for India & Gujarat," invited talk, World Gujarat Conference: Chaalo Gujarat, Edison, NJ, August 30, 2008.

11. "Globalization and Knowledge-intensive Economies," AINA/World Gujarat Conference, Edison, NJ, Aug 29-31, 2008.
12. "Semantic Web: Promising Technologies, Current Applications and Research Directions," Macquarie University, Sydney, August 14, 2008.
13. "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.
14. "Semantics to Empower Services Science: Using Semantics at Middleware, Web Services and Business Levels," CSIRO, Canberra, Australia, August 11, 2008.
15. "[Semantic Sensor Web,' ARC Research Network on Intelligent Sensors](#)," Sensor Networks and Information Processing - ISSNIP talk, Melbourne, Australia, August 1, 2008.
16. "Semantic Web: Promising Technologies, Current Applications & Future Directions," University of Adelaide, Australia, July 23, 2008.
17. "Semantic Sensor Web," Semantic Technology Conference, San Jose, CA, May 18-22, 2008.
18. "SA-REST: Using Semantics to Empower RESTful Services and Smashups with Better Interoperability and Mediation," Semantic Technology Conference, San Jose, CA, May 18–22, 2008.
19. "Dynamic and Agile SOA using SAWSDL," Semantic Technology Conference, San Jose, CA, May 18, 2008.
20. "Semantic Sensor Web," Sensor Web Enablement (SWE) Working Group of the Open Geospatial Consortium ([OGC](#)), St. Louis, MO, March 26, 2008.
21. "Semantic Sensor Web," Special SICoP Conference, Building Semantic Interoperability Solutions for Information Sharing and Integration, Falls Church, VA, February 5, 2008.
22. "[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.
23. "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.
24. "Relationship Web: Spinning the Semantic Web from Trailblazing to Complex Hypothesis Evaluation," presentation, College of Engineering, University of Illinois at Chicago, Chicago, IL, 2007.
25. "Semantic empowerment of Life Science Applications," Cincinnati Children Hospital and Medical Center, Cincinnati, OH, October 14, 2006.
26. "Career Options, Changing Trends and Emerging Areas in Computer Science and related fields," Birla Institute of Technology & Science, Pilani, India, September 30, 2006.
27. "Semantics to energize the full Services Spectrum," IBM Indian Research Lab, New Delhi, India, July 27, 2006.
28. "Semantics to energize the full Services Spectrum," DA-IICT, Ahmedabad, India, July 25, 2006.
29. "METEOR-S: Using Semantics to energize Services & Processes," DERI, Galway, Ireland, June 19, 2006.

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30. "Semantic Web applications in Financial Industry, Government, Health care and Life Sciences," Accenture Technology Labs, Palo Alto, CA, March 29, 2006.
31. "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.
32. "Web Service Semantics-WSDL-S," W3C Advisory Committee Meeting, Montreal, Canada, November 30, 2005.
33. "What can Semantics do for Bioinformatics," Special Seminar, Institute of Bioinformatics, University of Georgia, September 22, 2005.
34. "Semantic Web Applications in Enterprises and Scientific Research," W3C Advisory Committee Meeting, Cannes-Mandelieu, France, June 7, 2005.
35. "Semantic Web: Technology & Applications in Search, Digital Media/Content Management, Science and National/Homeland Security," Digimarc Corp., Portland, OR, May 3, 2005.
36. "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.
37. "Web Services to Semantic Web Process," Tsinghua University, Beijing, China, September 16, 2004.
38. "Semantic Web Technology in Action: From Search and Integration to Analytics," Shanghai Jiao Tong University, Shanghai, China, September 15, 2004.
39. "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.
40. "Semantic Web in Action," NASA Ames Research Center, Menlo Park, CA, April 1, 2004.
41. "Semantic Web in Action," IBM Almaden Research Center, January 13, 2004.
42. "Semantic Discovery and its applications to Homeland Defense and Bioinformatics," Georgia Technology Institute, Atlanta, GA, November 24, 2003.
43. "Ontology-based Information Systems: From Research to Reality," Boeing PhantomWorks, Seattle, WA, September 17, 2003.
44. "Semantic Web Process Lifecycle: Role of Semantics in Annotation, Discovery, Composition and Orchestration," IBM T.J. Watson Research Center, Hawthorne, NY, July 10, 2003.
45. "Ontology Driven Information Systems in Action: Capturing and Applying Existing Knowledge to Semantic Applications," University of Namur, Belgium, June 24, 2003.
46. "Semantic Web Applications and Next Generation Content Management," Hongik University, Seoul, Korea, October 30, 2001.
47. "Web, Semantics, OIL and FUEL: Semantic Interoperability and learning on the Web," Stanford University Database Seminar, October 20, 2000.
48. "Mapping your job search process while balancing Career Growth, Pay and Security," ACM Student Chapter 1st Annual ACM Dinner, Athens, GA, April 5, 2001.
49. "Changing Focus on Interoperability in Global Information Systems," Technical Speaker Series, MITRE, December 3, 1998.

50. "Enabling Virtual Teams and Infocosm," Bell Communications Research, December 2, 1998.
51. "METEOR System for Distributed, Multi-paradigm Workflow Management," invited technical presentation, CERN, Geneva, Switzerland, March 31, 1998.
52. InfoHarness and InfoQuilt: Steps towards enabling Infocosm through Semantic Interoperability," colloquium talk, University of California, Santa Barbara, March 5, 1998.
53. "InfoHarness and InfoQuilt Projects," CNN Interactive, Atlanta, GA, April 21, 1997.
54. "Information (Super) Highway: New Opportunities for Global Competitive Advantage for Developing Countries," H. M. College, Ahmedabad, India, September 12, 1996.
55. "Information (Super) Highway: New Opportunities for Global Competitive Advantage for Developing Countries," IEEE Computer Society, Gujarat, India, September 11, 1996.
56. "Media-independent Correlation and Access of Heterogeneous Digital Information," Indian Space Research Organization, Ahmedabad, India, September 9, 1996.
57. "Adapt/X Harness System for Managing Heterogeneous Information in Internet and Intranets," Conference on Very Large Databases, Bombay, India, September 4, 1996.
58. "Transactional Workflow Management: Research, Technology and Applications," Indian Institute of Management, Ahmedabad, India, December 1994.
59. "Issues in Interoperable Information Systems," Indian Institute of Technology, Bombay, India, December 29, 1994.
60. "Multi-Database Systems: Research and Reality," ACM Lecture Series Talk, Univ. of Michigan, November 1994.
61. "Transactional Workflow Systems," ACM Lecture Series Talk, Wayne State University, Detroit, MI, November 17, 1994.
62. "Multi-Database Systems: Research and Reality," ACM Lecture Series Talk, ACM Professional Chapter, Ann Arbor, MI, November 17, 1994.
63. "Multi-system Applications and Transactional Workflows," George Mason University, Fairfax, VA, May 1994.
64. "Multisystem Applications and Transactional Workflows," University of California, Riverside, April 1994.
65. "Transactional Workflow Management: Research, Technology and Applications," State University of New York, Albany, NY, March 1994.
66. "Transactional Workflow Management: Research and Applications," Bell Labs, Murray Hill, NJ, July 1993.
67. "Transactional Workflow Management: Research and Applications," Matsushita Information Technology Laboratory, Princeton, NJ, June 1993.
68. "Management of Interdependent Data: Specification, Enforcement and Applications," University of Zurich, Zurich, Switzerland, May 1993.
69. "Schematic and Semantic Heterogeneity," ETH (Swiss Federal Institute of Technology), Zurich, Switzerland, May 1993.
70. "Multisystem Workflow Applications," University of Munich, April 1993.
71. "Management of Interdependent Data: Specification, Enforcement and Applications," George Mason University, Fairfax, VA, March 1993.

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72. "BERDI: A Schema Design, Analysis and Integration Toolkit," Hewlett Packard Labs, February 1993.
73. "The CHIME Project," Microelectronics and Computer Corporation, Austin, TX, January 1993.
74. "Multidatabase Systems: Research and Reality," Queensland University of Technology, Brisbane, Australia, November 1992.
75. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," La Trobe University, Bandoora, Australia, November 1992.
76. "Management of Interdependent Data: Specification, Enforcement and Applications," ETH (Swiss Federal Institute of Technology), Zurich, Switzerland, October 1992.
77. "Management of Interdependent Data," IBM-European Networking Center and Scientific Research Heidelberg, Heidelberg, Germany, October 1992.
78. "Transactional Workflow Management: Specification and Enforcement," IPSI-GMD, Darmstadt, Germany, October 1992.
79. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," University of Ulm, October 1992.
80. "The BrAID System for Integrating AI and DBMS Systems," Fern Universitat, Hagen, Germany, October 1992.
81. "Multidatabase Systems: Research and Reality," Simon Fraser University, Vancouver, Canada, August 1992.
82. "Management of Interdependent Data in Multidatabase Systems," U of Maryland-BC, May 1992.
83. "Management of Interdependent Data," IPSI-GMD, Darmstadt, Germany, March 1992.
84. "Semantics Issues in Schema Integration," IPSI-GMD, Darmstadt, Germany, March 1992.
85. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," CRAI, Italy, March 1992.
86. "Data Consistency and Work Flow Management in Multidatabase Systems," VTT (National Research Center of Finland), Helsinki, Finland, March 1992.
87. "Management of Interdependent Data in Multidatabase Systems," Matsushita Information Technology Laboratory, Princeton, NJ, February 1992.
88. "Management of Interdependent Data: A Case Study at Bellcore," Microelectronics and Computer Corporation, Austin, TX, January 1992.
89. "Research Issues in Schema Integration and View Update," University of Houston, TX, October 1991.
90. "Federated Database Systems," Boeing, Seattle, WA, October 1991.
91. "Federated Database Systems," ACM professional chapters at Piscataway, NJ, April 1991.
92. "Schematic and Semantic Issues in Schema Integration," New Jersey Institute of Technology, Newark, March 1991.
93. "Federated Database Systems: Architecture and Alternatives," New Jersey Institute of Technology, Newark, January 1991.
94. "Integrating Heterogeneous Distributed Databases: Requirements, Concepts and Solutions," New Jersey Institute of Technology, Newark, October 1990.

95. "Research Issues in Schema Integration and View Update," Purdue University, West Lafayette, IN, October 1990.
96. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," IBM-European Networking Center and Scientific Research Heidelberg, Germany, August 1990.
97. "View Update Using Knowledge at View Definition and View Update Time," IPSI-GMD, Darmstadt, Germany, August 1990.
98. "Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases," Fern Universitat, Hagen, Germany, August 1990.
99. "Federated Database Systems," Bell Communications Research, Red Bank, NJ, February 1990.
100. "Integrating Heterogeneous Distributed Databases: Requirements, Concepts and Solutions," University of California, Los Angeles, October 1988.
101. "View Update Using Knowledge at View Definition and View Update Time," Fern Universitat, Hagen, Germany, March 1988.
102. "View Update Using Knowledge at View Definition and View Update Time," INRIA, France, March 1988.
103. "View Update Using Knowledge at View Definition and View Update Time," Unisys West Coast Research Center, April 1987.
104. "Integrating Heterogeneous Distributed Databases," University of Minnesota, September 1986.

Chief Guest/Speaker at Special Events

1. "Transforming Big Data into Smart Dat: Deriving Value via harnessing Volume, Variety, and Velocity using semantic techniques and technoloies," IBM Distinguished Speaker Series, IBM Almaden Research Center, San Jose, CA, July 1, 2014. [[Abstract](#), [Slides](#), [Video](#)]
2. "[Computing for Human Experience: Semantics empowered Sensors, Services, Social and Ubiquitous Computing in Web 3.0 and beyond](#)," University of Illinois, The National Center for Supercomputing Applications (NCSA), Urbana-Champaign, IL, October 10, 2010.
3. "Semantics empowered Understanding, Analysis and Mining of Nontraditional and Unstructured Data," invited talk at the Data Mining Seminar with AFRL, Wright State University, Dayton, OH, August 5, 2009.
4. "Semantic Web: Promising Technologies and Current Applications," Invited talk at the Reed Elsevier EPIC Conference, Toronto, Canada, October 9, 2007.
5. "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.
6. "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.
7. "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.
8. "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.
 9. "An Overview of Workflow Management: From Process Modeling to Workflow Automation," CERN-wide Computing Colloquium, CERN, Geneva, Switzerland, March 31, 1998.
 10. "Workflow Management: Technology, Experiences and Research," special university-industry seminar, Universidade Nove de Lisboa, Lisbon, Portugal, March 25, 1998.
 11. "Information (Super) Highway: New Opportunities for Global Competitive Advantage for Developing Countries," city-wide talk organized by Ahmedabad Management Association, India, August 26, 1996.
 12. "Multidatabase Systems: Research and Reality," Invited guest speaker at the 1st Symposium of the Tsukuba Advanced Research Alliance (TARA), Tsukuba, Japan, March 4, 1995.
 13. "Information By-Ways, Lanes, and Superhighway," citywide talk organized by the Ahmedabad Management Association, Ahmedabad, India, December 1994.
 14. Special guest and speaker at the UBILAB Workshop on Data Management Scenarios at Union Bank of Switzerland, Zurich, April 28, 1993.
 15. 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. "[Crisis Mapping, Citizen Sensing and Social Media Analytics: Leveraging Citizen Roles for Crisis Response](#)," (with Hemant Purohit, [Patrick Meier](#) and [Carlos Castillo](#)), the 7th Intl Conf on Weblogs and Social Media (ICWSM-13), Boston, MA, July 2013.
2. "Data Processing and Semantics for Advanced Internet of Things (IoT) Applications: modeling, annotation, integration, and perception"(with Pramod Anantharam, Payam Barnaghi), WiMS2013: International Conference on Web Intelligence, Mining and Semantics, June 12-14, 2013, Madrid, Spain.
3. "Trust Networks" (with Krishnaprasad Thirunarayan, Pramod Anantharam, Cory Henson, presented at The 2012 International Conference on Collaboration Technologies and systems (CTS 2012), Denver Colorado, May 21-25, 2012.
4. "Role of Semantic Web in Health Informatics," (with Satya Sahoo, G. Zhang) 2012 ACM SIGHIT International Health Informatics Symposium (IHI 2012), January 28-30, 2012.
5. "Citizen Sensing, Social Media Analytics, and Applications," (with Karthik Gomadam and Selvam Velmurugan), [2011 Semantic Technology Conference \(SemTech\)](#), San Francisco, CA, June 6, 2011.
6. "[Citizen Sensor Data Mining, Social Media Analytics and Development Centric Web Applications](#)," (with Meena Nagarajan and Selvam Velmurugan), 20th World Wide Web Conference (WWW2011), Hyderabad, India, March 28, 2011.

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7. “[How To Make Linked Data More than Data](#),” (with Prateek Jain, Pascal Hitzler, Peter Z. Yeh, and Kunal Verma), Semantic Technology Conference 2010, San Francisco, CA, June 23, 2010.
8. “[Mobile Semantic Computing](#),” (with Karthik Gomadam, Anupam Joshi) 2nd International Conference on Semantic Computing ([ICSC2008](#)), Santa Clara, CA, August 4–7, 2008.
9. “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.
10. “Using SAWSDL for Semantic Service Interoperability,” (with Kunal Verma), Semantic Technology Conference, San Jose, CA, May 20–24, 2007.
11. “[Semantic Web: Technologies and Applications for the Real-World](#)” (with Susie Stephens), 16th World Wide Web Conference (WWW2007), Banff, Canada, May 8–12, 2007.
12. “WSDL-S: Specification, Tools, Use Cases and Applications” (with Kunal Verma and Karthik Gomadam), Semantic Technology Conference, San Jose, CA, March 7, 2006.
13. “[Lifecycle of Semantic Web Processes](#)” (with Jorge Cardoso), 17th Conference on Advanced Information Systems Engineering (CAiSE'05), Porto, Portugal, June 13, 2005.
14. “[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.
15. “Service Oriented Architectures and Semantic Web Processes” (with Jorge Cardoso and Francisco Curbera), 13th International World Wide Web Conference, New York, NY, May 17, 2004.
16. “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
17. “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.
18. “Semantic Web Processes” (with Jorge Cardoso), 1st German Conference on Multiagent System Technologies and Net Object Days, Erfurt, Germany, September 22–25, 2003.
19. “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.
20. “[On the Move to Meaningful Internet Computing and Ubiquitous Computer 2002](#),” International Federated Conferences: DOA/ODBASE/CooPIS 2002, Irvine, CA, October 28-29, 2002.
21. “Workflow Management: Technology, Experiences and Research” (with J. Miller), 1998 IEEE International Conference on Data Engineering, Orlando, FL, February 23, 1998.
22. “Workflow Automation: Applications, Technology, and Research,” 1995 ACM SIGMOD International Conference on Management of Data, San Jose, CA, May 24, 1995, and the

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- International Conference On Information Systems Engineering (CAiSE '95), Finland, June 14, 1995.
23. "Multidatabase Interoperation: Perspective of Researchers & Practitioners," 11th International Conference on Data Engineering, Taiwan, March 1995.
 24. "Database and Application Interoperability in Industry: Requirements, Technology, Research Issues and Case Studies," 6th International Conference on Management of Data, Bangalore, India, December 1994.
 25. "Interoperability in Multidatabase Systems" (with Dennis McLeod), 20th International Conference on Very Large Data Bases, Chile, September 1994.
 26. "Interoperability in Multidatabase Systems," course offered by ETH (Swiss Federal Institute of Technology), Zurich, Switzerland, April 1993.
 27. "Multidatabase Systems: Technology and Applications" (with M. Rusinkiewicz), 3rd International Conference on Data Engineering, Vienna, Austria, April 1993.
 28. "Issues and Applications Support in Interoperable Database Systems," IFIP DS-5 Conference on Semantics of Interoperable Database Systems, Melbourne, Australia, November 1992.
 29. "Multidatabase Applications: Semantics and Systems Issues" (with M. Rusinkiewicz), 18th International Conference on Very Large Data Bases (VLDB 92), Vancouver, Canada, 1992.
 30. "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.
 31. "Heterogeneous Distributed Databases: Issues in Integration," at the ACM SIGMOD Conference, 1989, and the 3rd International Conference on Data Engineering, 1987 and 1990.
 32. "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.
 33. "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. "Meet the Editors," 10th International Semantic Web Conference ([ISWC 2011](#)), Bonn, Germany, October 23-27, 2011.
2. "[Semantic Social Networking Panel](#)," 2010 Semantic Technology Conference (SEMTECH 2010), San Francisco, CA, June 21-25, 2010.
3. "Linked Data is Merely More Data," Panel on 'Linked Data and AI: The Big Picture,' Linked AI: AAAI Spring Symposium "Linked Data Meets Artificial Intelligence," March 22-24, 2010, Stanford CA.
4. "Context is highly contextual!," 4th European Conference on Smart Sensing & Context 2009, Surrey, UK, September 18, 2009.

5. "Analysis and Monetization of Social Data," Panel on 'Semantifying Social Networks,' Semantic Technology Conference, San Jose, CA, June 16, 2009.
6. "Semantifying Social Networks," Semantic Technology Conference, San Jose, CA, June 16, 2009.
7. "Regulatory & Policy Reform for Higher Education in Gujarat," International Conference on 'Reconnecting Gujarati Diaspora with its Homeland: Contribution to its Development with a Focus on Building a Knowledge Society' (Patan-Gandhinagar, Jan 17-19, 2009).
8. "The Semantic Web," - ISWC 2008, 7th International Semantic Web Conference, ISWC 2008, Karlsruhe, Germany, October 26-30, 2008. Proceedings Springer 2008.
9. Schahram Dustdar, Jos Luiz Fiadeiro, Amit P. Sheth: Business process management. Data Knowl. Eng. 64(1): 1-2 (2008).
10. "Relationship Web: Spinning the Web from Trailblazing to Semantic Analytics," 27th International Conference on Conceptual Modeling (ER 2008), Barcelona, Spain, October 20-23, 2008.
11. "Do the current Semantic Web standards and technologies benefit Health 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)
12. "Semantic Web and Database Conferences," 3rd International Workshop on Semantic Web and Databases, Atlanta, GA, April 8, 2006.
13. "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.
14. "Semantic Web Services: Past, Present, and Future," International Workshop in Dynamic Web Processes (DWP, 2005), Amsterdam, Netherlands, December 12, 2005.
15. "FLINT and Semantic Web," BISCSE 2005: Forging New Frontiers, Berkeley CA, November 2–6, 2005.
16. "Semantic Web Service Ontology Standard," Ontology Conference Call, October 20, 2005.
17. "Computing for Human Experience and Wellness," Views from the Labs panel at Emerging Ventures Conference, Boston, MA, October 11, 2005.
18. "Future of Semantics," Semantic Technology Conference 2005, San Francisco, CA, March 8, 2005.
19. "Get Ready for Semantic Web," KMWorld/Intranets 2004, Santa Clara, CA, October 26, 2004.
20. "The Role of Web Services in Semantic Interoperability and Integration," Dagstuhl Seminar on Semantic Interoperability and Integration, Dagstuhl, Germany, September 20, 2004. (Panel Chair)
21. "Web Service Choreography," panel at WWW2003, Budapest, Hungary, May 22, 2003. (Panel Chair)
22. "Semantic (Web) Technology in Action—today," panel: "The Semantic Web—Scientific American article considered harmful?" WWW2003, Budapest, May 21, 2003.
23. "'Semantics' in the Semantic Web: Is the Domain/Discipline Important?" ODBASE'02, Irvine, CA, October 29, 2002.

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24. "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.
25. "Research Directions for the Semantic Web," 3rd OntoWeb Meeting, Sardinia, Italy, June 13, 2002.
26. "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.
27. "Semantic Web—Rehash or Research Goldmine," 6th International Conference on Cooperative Information Systems (CoopIS 2001), Trento, Italy, September 6, 2001. (Panel Chair)
28. "Semantic Web—The Road Ahead," 2nd International Workshop on the Semantic Web (SemWeb'2001) at WWW10, Hong Kong, May 1, 2001.
29. "Creating Searchable Audio Video Web Sites," Streaming Media West 2000, San Jose, CA, December 14, 2000.
30. "Impact of Broadband," Internet Entrepreneur Conference, sponsored by SiliconIndia, Atlanta, GA, May 8, 2000. (Panel Chair)
31. "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.
32. "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)
33. "Is Healthcare Ready for Internet? Technology Is!" Annual Meeting of the Healthcare Open Systems and Trials Consortium, Washington, DC, November 1997.
34. "Cooperative Multiagent Systems for the Web," 2nd IFCIS International Conference on Cooperative Information Systems, Kiawah Island, SC, June 1997. (Panel Chair)
35. "Active Databases and Agents in Cooperative Information Systems," 2nd IFCIS International Conference on Cooperative Information Systems, Kiawah Island, SC, June 1997. (Panelist)
36. "World Wide What?" 4th International Conference on Parallel and Distributed Information Systems, Miami, FL, December 20, 1996. (Panelist)
37. "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)
38. "Database Research in Workflow Management Systems, Do We Have Anything to Contribute?" International Conference on Cooperative Information Systems (CoopIS'96), June 20, 1996. (Panelist)
39. "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)
40. "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)

41. "Information Resource Discovery: A Torch in the Deep Darkness of the Information Superhighway?" 11th International Conference on Data Engineering, Taiwan, March 1995. (Panel Chair)
42. "Where are Distributed Databases headed," 6th International Conference on Management of Data, Bangalore, India, December 1994. (Panelist)
43. "Challenges in Global Information Systems," 20th International Conference on Very Large Data Bases, Chile, September 1994. (Panelist)
44. "Why do we need Extended Transaction Models?" 16th IEEE-CS Computer Software & Applications Conference (COMPSAC92), September 1992. (Panelist)
45. "Dealing with Heterogeneous Databases: Is the Research on Right Track?" 2nd International Conference on Systems Integration, Morristown, PA, June 1992. (Panel Chair)
46. "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)
47. "Cooperative Database Design," 17th International Conference on Very Large Data Bases, Barcelona, Spain, September 1991. (Panelist)
48. "Resolving Semantic Heterogeneity," 6th International Conference on Data Engineering, Los Angeles, CA, February 1990. (Panelist)
49. "Does loose AI-DBMS coupling stand a chance?" 5th International Conference on Data Engineering, Los Angeles, CA, February 1989. (Panel Chair)
50. "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)
51. "When will we have true Heterogeneous Databases," Fall Joint Computer Conference, October 1987. (Panelist)
52. "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 thirteen volumes in this series. ISSN 1559-7474
 - A. Volume 1: [Semantic Management of Middleware](#), Daniel Oberle, 2006.
 - B. Volume 2: [Canadian Semantic Web](#), Mamadou Tadiou Koné and Daniel Lemire (Eds.), 2006.
 - C. Volume 3: [Semantic Web Services, Processes and Applications](#), Jorge Cardoso and Amit P. Sheth (Eds.), 2006.
 - D. Volume 4: [Ontology Alignment, Bridging the Semantic Gap](#), Marc Ehrig, 2006.
 - E. Volume 5: [Social Networks and the Semantic Web](#), Peter Mika, 2007.

- F. Volume 6: [The Semantic Web: Real-World Applications from Industry](#), Jorge Cardoso, Martin Hepp, and Miltiadis Lytras (Eds.), 2008.
 - G. Volume 7: [Ontology Management, Semantic Web, Semantic Web Services, and Business Applications](#), Martin Hepp, Pieter De Leenheer, Aldo de Moor, and York Sure (Eds.), 2008.
 - H. Volume 8: [Semantic Web Services Challenge](#), Charles Petrie, Holger Lausen, Michal Zaremba, and Tiziana Margaria-Steffen (Eds.), 2008.
 - I. Volume 9: [Ontology Economics](#), Martin Hepp and Robert Tolksdorf (Eds.), 2012
 - J. Volume 9: [Terminological Ontologies](#), Javier Lacasta, Javier Nogueras-Iso, Soria Zarazaga and Javier Francisco (Eds.), 2010.
 - K. Volume 10: [Semantic Business Process Management](#), Martin hepp, Jogn Domingue and Alistair Barros (Eds.), 2012.
 - L. Volume 12: [Geospatial Semantics and the Semantic Web: Foundations, Algorithms, and Applications](#), Naveen Ashish and Amit Sheth (Eds.), 2011.
 - M. Volume 13: [Social Semantics](#), Harry Halpin Ed., 2013.
2. Ahmed Elmagamid and Amit Sheth (Eds.), [Advances in Database Systems](#), Springer. Prof. Sheth joined as co-editor in July 2007.

Books Authored or Co-Authored

1. Amit Sheth, Krishnaprasad Thirunarayanan, " Semantics Empowered Web 3.0: Managing Enterprise, Social, Sensor, and Cloud-based Data and Services for Advanced Applications, Morgan & Claypool Publishers; December 19, 2012.
2. V. Kashyap and Amit Sheth, "Information Brokering across Heterogeneous Digital Data," Kluwer Academic Publishers, August 2000, pp. 248.

Books Edited and Co-Edited

1. A. Sheth, [Semantic Web: Ontology and Knowledge Base Enabled Tools, Services and Application](#), Information Science Reference, IGI Global, Jul 2013, pp 1-360 ISBN 978-1-4666-3610, doi:10.4018/978-1-4666-3610-1.
2. A. Sheth, "Semantic-Enabled Advancements on the Web: Applications Across Industries." IGI Global, Feb, 2012, pp 1-324. DOI: 10.4018/978-1-4666-0185-7, ISBN13: 9781466601857.
3. A. Sheth, "Semantic Services, Interoperability and Web Applications: Emerging Concepts." IGI Global, June 2012, pp 1-420. DOI: 10.4018/978-1-60960-593-3, ISBN13: 9781609605933.
4. Amit Sheth, "Semantic Services, Interoperability and Web Applications: Emerging Concepts," IGI Global, 2011, pp. 1-420. Web. doi:10.4018/978-1-60960-593-3.
5. A. Sheth and N. Ashish, [Geospatial Semantics and the Semantic Web: Foundations, Algorithms, and Applications](#), in Series: Semantic Web and Beyond, Vol. 12, Springer 2011.
6. M. Lytras, and A. Sheth, "Progressive Concepts for Semantic Web Evolution: Applications and Developments." IGI Global, 2010. 1-410. doi:10.4018/978-1-60566-992-2

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

Chapters in Books

1. Amit Sheth, Ashutosh Jadhav, Pavan Kapanipathi, Chen Lu, Hemant Purohit, Gary Smith, Wenbo Wang. Twitris- a System for Collective Social Intelligence. *Encyclopedia of Social Network Analysis and Mining (ESNAM)*, Eds Reda Alhajj, Jon Rokne, Springer, 2014.
2. Kalpa Gunaratna, Sarasi Lalithsena and Amit Sheth, Alignment and dataset identification of linked data in Semantic Web. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, Volume 4, Issue 2, pp. 139–151, March/April 2014, DOI: 10.1002/widm.1121
3. Charu C. Aggarwal, Naveen Ashish, and Amit Sheth, (2013). The Internet of Things: A Survey from the Data-Centric Perspective. In Managing and Mining Sensor Data. (pp. 383-428). Retrieved from http://link.springer.com/chapter/10.1007/978-1-4614-6309-2_12
4. Amit P. Sheth, Krishnaprasad Thirunarayan, "Semantics Empowered Web 3.0: Managing Enterprise, Social, Sensor, and Cloud-based Data and Services for Advanced Applications," Synthesis Lectures on Data Management, Morgan & Claypool Publishers 2012.
5. Matthew Perry, Prateek Jain and Amit Sheth, 'SPARQL-ST: Extending SPARQL to Support Spatiotemporal Queries,' book chapter in Geospatial Semantics and the Semantic Web: Foundations, Algorithms, and Applications, N. Ashish and A. Sheth (Eds.), Springer, 2011, pp. 61-86.
6. Christopher J Thomas, Amit Sheth, 'Web Wisdom: An Essay on How Web 2.0 and Semantic Web can foster a Global Knowledge Society' In Book: Computers in Human Behavior, Volume:27 Issue:4, Robert Tennyson (Ed.) Elsevier Ltd. 2011, pp. 1285-1293, doi: 10.1016/j.chb.2010.07.023.
7. C. Pedrinaci,J. Domingue and A. Sheth. Semantic Web Services, in Handbook of Semantic Web Technologies, volume 2 - Semantic Web Applications. J. Domingue;D. Fensel;J. Hendler, (Eds.). Springer, 2010.
8. S. Tartir, I. B. Arpinar, and A. Sheth, "Ontological Evaluation and Validation," in Theory and Applications of Ontology: Computer Applications, Roberto Poli, Michael Healy, and Achilles Kameas (Eds.), Springer, (June 2010) pp. 115-130. ISBN: 978-90-481-8846-8

9. K. Aberer, A. Gal, M. Hauswirth, K.U. Sattler, and A.P. Sheth, "Semantic Challenges in Sensor Networks," Dagstuhl Seminar Proceedings. Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, Germany, (May 2010) ISSN 1862-4405.
10. C. Pedrinaci, J. Domingue, and A. Sheth, "Semantic Web Services,"; in Handbook of Semantic Web Technologies, Semantic Web Applications, J. Domingue, D. Fensel and J. Hendler (eds.), Vol. 2, Springer, 2010.
11. L. Deligiannidis and A. 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**
12. K. Gomadam, A. Ranabahu, Z. Wu, A. P. Sheth and J. A. Miller, 'A Declarative Approach using SAWSDL and Semantic Templates Towards Process Mediation,' in Semantic Web Services Challenge: Results from the First Year, Series: Semantic Web and Beyond, Vol. 8, C. Petrie, T. Margaria, H. Lausen and M. Zaremba, Editors (December 2008) pp. 101-118.
13. A. Sheth, S. Agrawal, J. Lathem, N. Oldham, H Wingate, P. Yadav, and K. Galleher, "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
14. P. Mika, R. Jain, and Amit Sheth, 'Chapter 4: Knowledge representation on the Semantic Web,' In Book: Social Networks and the Semantic Web, Springer 2007, pp. 65-92.
15. P. Mika, R. Jain, and Amit Sheth, 'Chapter 5: Modeling and Aggregating Social Network Data,' In Book: Social Networks and the Semantic Web, Springer 2007, pp. 93-120.
16. P. Mika, R. Jain, and Amit Sheth, 'Chapter 6: Developing Social-Semantic Applications,' In Book: Social Networks and the Semantic Web, Springer 2007, pp. 121-154.
17. P. Mika, R. Jain, and A. Sheth, 'Chapter 9: Ontologies are us: Emergent Semantics in Folksonomy Systems,' In Book: Social Networks and the Semantic Web, Springer, pp. 193-210.
18. Satya Sahoo, Amit P Sheth, B. Hunter, and W. York, 'Semantic Biological Web Services Registry,' in *Semantic Web: Revolutionizing Knowledge Discovery in the Life Sciences*, Christopher Baker and Kei-Hoi Cheung (Eds.), Springer, 2007.
19. 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.
20. 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.
21. 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
22. 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.

23. B. 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.
24. 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.
25. 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.
26. 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. Christopher Thomas and Amit Sheth, 'On the Expressiveness of the Languages for the Semantic Web-Making a Case for 'A Little More,' in *Fuzzy Logic and the Semantic Web*, Eli Sanchez (Ed.), Elsevier, 2006.
27. 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.
24. A. Sheth, "Enterprise Application of Semantic Web: the Sweet Spot of Risk and Compliance," in Industrial Applications of Semantic Web, M. Brammer and V. Terziyan (Eds.), Springer, 2005, pp. 47–62.
25. 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.
26. 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.
27. J. Cardoso and A. Sheth, "Introduction to Semantic Web Services and Web Process Composition," in Semantic Web Services and Web Process Composition, Lecture Notes in Computer Science, vol. 3387, Springer, January 2005, pp. 1–13.
28. N. Sriharee, T. Senivongse, K. Verma, and A. Sheth, 'On Using WS-Policy, Ontology, and Rule Reasoning to Discover Web Services,' in *Intelligence in Communication Systems: IFIP International Conference, INTELLCOMM 2004, Bangkok, Thailand, Proceedings*, Lecture Notes in Computer Science, Vol. 3283, Springer, 2004, pp. 246–255.
29. M. Fisher and A. Sheth, "Semantic Enterprise Content Management," in Practical Handbook of Internet Computing, Munindar P. Singh (Ed.), Baton Rouge, LA: Chapman & Hall & CRC Press, 2004, pp. 9–1:9–21.
30. J. Arnold, H.–B. Schuttler, D. Logan, D. Battogtokh, J. Griffith, B. Arpinar, S. Bhandarkar, S. Datta, K. J. Kochut, E. Kraemer, J. A. Miller, A. Sheth, G. Strobel, T. Taha, B. Aleman-Meza, J. Doss, L. Harris, and A. Nyong. "Metabolomics," chapter 22 in Handbook of Industrial Mycology, New York: Marcel Dekker, 2004, pp 597–633.

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2. Sujan Perera, Amit Sheth, Krishnaprasad Thirunarayan, Suhas Nair and Neil Shah.. "Challenges in Understanding Clinical Notes: Why NLP Engines Fall Short and Where Background Knowledge Can Help"., *International Workshop on Data management & Analytics for healthcaRE (DARE) at ACM Conference of Information and Knowledge Management (CIKM)*, pp. 21-26, Burlingame, USA, Nov 1, 2013, DOI: 10.1145/2512410.2512427
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6. S. Dustdar, J. Fiadeiro, and A. Sheth (Eds.), special issue: Business Process Management, Data & Knowledge Engineering (Elsevier), 2008.
7. J. Davies, M. Lytras, and A. Sheth (Eds.), special issue: Semantic-Web-Based Knowledge Management, IEEE Internet Computing 11 (no. 5), September–October 2007.
8. N. Ashish, C. Goble, and A. Sheth (Eds.), special section: The Semantic Web and Science Data Interoperation, International Journal on Digital Libraries 5 (no. 2), April 2005.
9. R. Meersman and A. Sheth (Eds.), special issue: Semantic Web, Database Management and Information Systems, ACM SIGMOD Record 32 (no. 4), December 2002, pp. 10–70.
10. Ouksel and A. Sheth (Eds.), special section, ACM SIGMOD Record 28 (no.1), March 1999.
11. H. Korth and A. Sheth (Eds.), special issue: Selected Systems: Papers Based on the 3rd International Conference on Parallel and Distributed Information Systems, VLDB (Very Large Data Bases) Journal 5 (no. 1), January 1996, pp. 1–63.
12. W. Klas and A. Sheth (Eds.), special issue: Metadata for Digital Media, ACM SIGMOD Record 24 (no. 4), December 1994, pp. 19–71.
13. Sheth (Ed.), special issue: Semantic Issues in Multidatabase Systems, ACM SIGMOD Record 20 (no. 4), December 1991, pp. 5–80.

Recognition, Outstanding Achievements and Honorary Appointments

1. Programme External Assessor for the Bachelor of Science (Bioinformatics), University of Malasia, six years starting 2013.
2. 2010 Wright State University **Trustee's Award for Faculty Excellence**. This is the highest award given by the university. The annual award honors those who serve as the most outstanding of role models for all faculty.
3. Kno.e.sis Center, Director on February 19, 2010, when Ted Strickland, Governor of Ohio; and, Eric Fingerhut, Chancellor of the Ohio Board of Regents, recognized the center as a "Center of Excellence."

4. **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.
5. Among the highly cited authors in computer science with h-index of 67 and over 15,000 citations (as of December 2010). ([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 2485 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 1500 citations) is the most cited paper in the area of workflow management. At least 42 papers have more than 100 citations.
6. International Scientific Advisory Committee, BISCSE 2005: Forging New Frontiers, 40th of Fuzzy Pioneers (1965–2005), Berkeley CA, November 2–6, 2005.
7. 2004 IBM Faculty Award, March 2004.
8. UGA Career Center Recognition/Award for “greatly contributing to the career development of UGA students” (based on post-graduation student surveys), September 2002.
9. Patent co-inventor (Sheth, Gomadam, and Nagarajan), “Methods and Systems for Analysis of Real-Time User-Generated Text Messages” (patent application no. 13/028,397), February 16, 2011. 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 (Marcus, Shah, Kshitij, Sheth, Shklar, Surak, Thatte) “Method and system for providing uniform access to heterogeneous information”(no. 1997/015018), April 24, 1997. Patent co-inventor (Georgakopoulos, Rusinkiewicz, Sheth) “Method for enforcing the serialization of global multidatabase transactions through coming only on consistent subtransaction serialization by the local database managers” (no. 5,241,675), August 31, 1993.
10. Advisory Board, Coca-Cola Center for Marketing Studies, Terry College of Business, 2002–2003.
11. International Advisory Board, Internet Information Retrieval Research Center (IRC), Hankuk Aviation University, Korea, 2001–2002.
12. Board of Directors, Healthcare Open Systems & Trials (HOST) consortium, 1995–1999.
13. Member of the two-person International Advisory Board, TARA Project, University of Tsukuba, Japan. 1994–1996.
14. Selected and served as an ACM Lecturer, 1991–1992. Again for 1992–1993.
15. Outstanding Paper Award (co-author), 7th International Conference on Data Engineering, Kobe, Japan, April 1991.
16. 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.
17. 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.

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18. Board of Advisors, Indiana Center for Database Systems, 1991–1993.
19. Award from the Federal Computer Conference in recognition of contributions, April 1989.
20. Best Paper Award (co-author) Computer Networking Symposium, 1984.
21. National Merit Scholar, Government of India, 1975.

Professional or Scholarly Activities

From Ideas to Research to Real-world: applications, deployed systems and commercial products/services

In most of my activities, I seek to traverse the entire innovation cycle. This may start with conceiving ideas when walking and brainstorming with students or partners, and lead to a series of activities that typically involve

- bringing resources (which usually means writing proposals),
- leading and supervising efforts involving training, teambuilding and prototype building,
- understanding users and customers, or partners in our inter-disciplinary research
- system building that often end into an open source tool and datasets, licensed technologies and patents, operationally deployed applications and software, or commercial products and services.

Below is a brief albeit incomplete list of some of my activities that have gone from industry or academic research to the real world (this list will be periodically be updated). I would be remiss to point out that this is almost always a team effort; when in industry, I had colleagues, and in academia, I have my graduate students. I have attempted to point out some of the key contributors and partners, but my memory may not be perfect as I look back over two decades (co-authors of cited publication point out more contributors). More significant/successful efforts are in bold.

Name/Years	Brief Technical Description [Key collaborator/contributor]	Form of real-world use [Key contributor]	More Info.: Publications/Presentations (Representative)
BERDI: 1989-1992	BERDI was a practical, graphical schema integration tool (BERDI followed the <u>earlier "academic" prototype</u> that was probably the first schema integration tool developed in US.; BERDI benefited from rapidly developing graphical interface technologies.)	Used internally in Bellcore to integrate schemas associated with large legacy applications, some of where transitioning from IMS to RDB technology.	Bellcore-TR

METEOR: 1990-1994 METEOR2: 1995-1999	<p>METEOR was among the earliest multiparadigm (supporting transaction and nontransaction/user tasks) workflow management system (WfMS) [Krishnakumar]. METEOR2 used emerging middleware and Web technologies resulting in two implementation: WebWork [John Miller]- one of the earliest Web based WfMS, and ORBWork [Krys Kochut]- one of the earliest CORBA based truly distributed workflow management system.</p> <p>(Note: METEOR2 was followed by a semantic Web Services version but did not have commercial applications: 2002-2006).</p>	<p>METEOR, developed at Bellcore, had internal technology exchange/transfer with a product team (for the workflow component) and was also used in significant application like Child Immunization Tracking; work continued at UGA. METEOR2 was used to start up and was licensed by Infocosm Inc. Infocosm created the commercial version termed METEOR Enterprise Application System (EAppS), which was sold to the likes of Bellcore, MCC, and Boeing. It was used in building applications such as Neonatal Clinical Pathways.</p>	<p>METEOR theory: VLDB93, METEOR system: DAPD95, METEOR app: VLDB96, DAPD03</p> <p>METEOR2 ORBWork Research: JDB96, InfoSys97; ORBWork commercial: CompStr99; WebWork: JIIS98</p>
InfoHarness: 1993-2000	InfoHaress was very early in adding metadata to heterogeneous data (documents of different formats, source code) and support browser based Web search (specifically attributed-based or faceted search) of such annotated Web accessible and Intranet documents. Its 1993/1994 implementation used Mozilla (Leon Skylar; later Leon lead development of GeoHaress).	InfoHaress was commercialized as AdaptX/Harness (well Marketing came up with that name) in 1995 [Kshitij Shah] and remained in available until 2000 and was used in Baby Bells. My biggest commercialization related disappointed was the failure in convincing Bellcore business managers to target Web search market rather than limited it to telco apps.	<p>InfoHarness early system: WWW2004, CAISE95; Commercial version: IC99</p>
CareWeb: 1996-1988	This was an unintended outgrowth of	CareWeb, a Web resource developed in	

	collaboration that began as part of NIST's Healthcare Information Integration Technology initiative, funded by State of Georgia's Family and Children Services department, and involved early adoption of Web technologies for this field.	collaboration with Medical College of Georgia to support health information and education needs of under-served populations.	
CAPA: 1997-1999	METEOR2's graphical workflow designer and WebWork technology was the basis of CAPA.	Course Approval Process Automation 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. My 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.	
Pediatric Echo: 2000-2003	Due to issues of cost, personnel, and availability of qualified individuals, echocardiography has not been used to its full potential, especially in rural areas. Working with the pediatric echocardiologists at the Medical College of Georgia who provided requirements I led development of the first of its kind system described	The system was used in blind trials by pediatric echocardiologists to compare against traditional store-and-forward method (in which a rural clinic sends a tape by overnight mail), and the trial successfully provide that the Web based system provide statistically equivalent	aper (that reports the evaluation): Clinical Pediatrics 2003

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	as the “Low-Cost Web-Based Tool for Pediatric Echocardiographic Consultation”.	or better results (at much lower cost and higher convenience/speed).	
ASEMR:2005-...	Active Semantic Electronic Medical Record (ASEMR) combined Semantic Web technology (three ontologies, rules, services architecture) with among the earliest fully Web based EMR system in a totally paperless clinical system. It was one of the three initial use cases for W3C SW HCLS in 2005.	ASEMR was deployed at Athens Heart Center and its partners in Jan 2006 as one of the earliest operational Semantic Web applications and it remains in 24x7 operation as of 2012.	Paper: ISWC06 demo , video , OpenClinical , SWLS , LSDIS
VideoAnywhere/Taalee Semantic Search Engine/Taalee MediaAnywhere/Voquette SCORE/Semagix FREEDOM: 1998-2006	In an industry funded project, VideoAnywhere set out to become a set-top based manager of videos on local systems, interactive TV and broadband/Web [Clemens Bertram]. In Java-based implementation, semantic technology (domain model associated metadata) was the key differentiator. As broadband content on Web grew, we developed MediaAnywhere semantic faceted search engine for the Web which exploited domain specific ontologies with automatically aggregated background knowledge with disambiguate (somewhat similar to GKB) and automatic semantic annotation of textual and media content. Search was followed by semantic browsing, connecting the dots and more focused applications build over semantic technology	I licensed VideoAnywhere to found VC funded Taalee (1999). We initially developed MediaAnywhere Faceted Semantic Search Engine for broadband content on Web during 1999-2001 (example customers: Voquette , Redband Broadcasting). Upon merger with Voquette (2002), we developed SCORE, a semantic web application development platform and digital content delivery platform; also apps like Passenger Threat Assessment (example customers: a pharma, NASA). Upon merger with Semagix (2004), we develop FREEDOM, and focused on selling vertical industry applications, with biggest success in	Product/System papers: ICO2 , SEE02 Application papers: CIKM02 , IASW05 , SAI06 Presentations: 2000Keynote , 2001Keynote , 2003Keynote (* probably the first keynote on SW and also on commercial SW products/services.)

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	<p>(details: System and method for creating a semantic web and its applications in browsing, searching, profiling, personalization and advertising, 2000-2001).</p> <p>Taalee was the first VC funded softate/internet company in Athens and surrounding region, and paid 6+million in payroll and other direct economic activities in the economy of Athens, GA before the company was acquired and moved to Atlanta, GA.</p>	<p>deploying Know Your Customer (KYC) in a majority of world's top 30 financial institutions (I left Semagix after its acquisition by Fortent in 2006; it is now Actimize: some original Taalee employees and apps like KYC are still ongoing strong in 2012.)</p> <p>Roles: Taalee: Founder/COB/CEO; Voquette: Co-founder, ExecVP; Semagix: SrVP-all R&D, later Chief Scientist)</p>	
<u>Scooner</u> /2008-2011	<p>Ontology/background knowledge support Semantic Browsing of Biomedical Literature with focus on human performance and cognition (C. Thomas, R. Kavuluru).</p>	<p>Near production quality tool deployed at Air Force Research Lab's Human Performance Directorate for biologists doing research in human performance & cognition.</p>	<p>Paper: SIGHT12 Demo</p>
Twitris/ 2009- ongoing	<p>Twitris- a System for Collective Social Intelligence Demo</p>	<p>Commercial version completed (Dec 2013), business development ongoing</p>	<p>patent published Book chapter: ESNAM 2014 Paper: WISE 2009 Demo paper: ISWC 2009, ISWC 2010</p>
ezCAC, ezCDI, ezFIND/2010- ongoing	<p>A Semantic Clinical Natural Language Understanding Engine being developed as part of collaborative research project funded by ezDI at Kno.e.sis.</p>	<p>ezCAC released at AHIMA 2013</p>	<p>Paper: BIBM12</p>

Here are some prototypes/systems related to above systems but did not find commercial or major real-world applications except for in-lab applications, described here for additional background (partial list):

1. VisualHarness/ZEBRA [1996-2000/UGA]: reincarnated InfoHarness for integrated keyword, attribute and content (eg image related content features like color, structure, composition and texture) of textual and image content. Used image processing engine from Virage Inc [Ramesh Jain, Bradley Horowitz].
2. OBSERVER [1994-1998/UGA]:
3. InfoQuilt [1998-2002/UGA]:
4. CaTCH (Collaborative TeleConsulting for Health)
5. **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. [1996-2000/UGA]

Also see [Open Source](#) for tools and data sets, and standards activities

Interviews and Biographical Profiles

1. [How Twitter community reacted over Union Budget 2014](#), OneIndia News, July 23, 2014.
[Analysis of 30K tweets related to India's 2014 Union budget using Twitris. Also credited: my students Revathy Krishnamurthy, Jeremy Brunn and Alan Smith]
2. [India's Briefcase-Sized Voting Machines](#), The Atlantic, April 15, 2014
[Penultimate paragraph covers my views/interpretation of data we saw].
3. [How big data has changed India elections](#), CNBC, April 10, 2014.
[Mentions some actionable information my group has produced using Twitris on actual on the ground use in activities associated with India Elections 2014].
4. [Analysis: See what Twitter community thinks of BJP, Congress, AAP](#), OneIndia News, Apr 10, 2014
[Detailed analysis of view of three main parties in 15 important states; also credited: my student Shreyansh Bhatt]
5. [India's social media election battle](#), BBC News, Mar 30, 2014
[Includes coverage of our analysis of India 2014 Election using Twitris]
6. [Survey: Kejriwal lost popularity after Gujarat visit ahead of election](#), OneIndia.com, March 11, 2014
[based on our analysis of specific event in India 2014 Election using Twitirs; also credited: my student Shreyansh Bhatt]
7. [Twitter's top swear words revealed: Researchers find one in 13 tweets contains a curse](#), Daily Mail (UK)/Mail Online, February 20, 2014
[A media coverage on our CSCW2014 paper, credit: my student Wenbo Wang]

8. [#Cursing Study: 10 Lessons About How We Use Swear Words on Twitter](#), [Time.com](#), Feb 19, 2014
[A media coverage on our [CSCW2014 paper](#); credit: my student Wenbo Wang]
9. [140 Characters Of F*ck, Sh!t, And @ss: How We Swear On Twitter](#), [Fast Company](#), Feb 19, 2014
[A media coverage on our [CSCW2014 paper](#); also credited: my student Wenbo Wang]
10. [Mapping Unstructured Clinical Notes to ICD-10 Coding](#), [SemanticWeb.com](#), Nov 26, 2013
[Covers our research on ontology/background knowledge enhanced NLP that is at the core of ezCAC and related products from [ezDI](#); also credited: my student: Sujan Perera]
11. [Are we missing out on tech-aided disaster management in Uttarakhand?](#) [The Hindu](#), July 17, 2013
[challenges in using 'tech' to support the relief and rebuilding effort; also credited: my student Hemant Purohit]
12. [Using crisis mapping to aid Uttarakhand](#), [The Hindu](#), June 27, 2013
[data resulting from coordination done by Kno.e.sis was used by Google Crisis Maps that helped crisis response planners; also credited: my student Hemant Purohit]
13. [Twitris: Taking Crisis Mapping to the Next Level](#), [Tech President](#), June 24, 2013
[in-depth on use of Twitris in Crisis Mapping/Disaster Response, Political Movement and Campaigns; also credited: my student Hemant Purohit]
14. [Election 2012: The Semantic Recap](#), [semanticweb.com](#), Nov 08, 2012
[Reviews how well Twitris did in predicting/analyzing US Presidential Election 2012 and the deeper insights semantic web technology enables]
15. [Could Twitris+ Be Used for Disaster Response?](#) [iRevolution](#), Sept 11, 2012
[The influential blog discusses Twitris' ability to provide insights and situational awareness for emergency response aid, reputation management etc. credits: my student Hemant Purohit]
16. [Picking the President: Twindex, Twitris Track Social Media Electorate](#), [semanticweb.com](#), Aug 3, 2012
[Comparison of Twitris with other tools monitoring/analyzing US Presidential Elections 2012]
17. [Semantic App Helps Researchers Understand Prescription Drug Abuse](#), [semanticweb.com](#), Jun 12, 2012
[Kno.e.sis' PREDOSE platform supports prescription drug abuse epidemiology; also credited: my student Delroy Cameron, my colleague: Raminta Daniulaityte]
18. [Web App Analyzes Tweets in Real Time for a Record of Historic Events](#), [mashable.com](#), Feb 17, 2012
[Reviews Twitris' monitoring/analysis of major events such as Occupy Wall Street, Egypt revolution 2011, Haiti Earthquake 2010, Iran Elections 2009]
19. [Twitris Social Media Analysis Tackles Occupy Wall Street, 2012 Elections](#), [semanticweb.com](#), Feb 12, 2012 [Review of Twitris' social media analysis of social movements such as Occupy Wall Street and India Against Corruption]
20. "Fund nurtures ideas that can be potent job engines," Dayton Daily News Column written by David R. Hopkins, President WSU, April 19, 2010.

21. "HP selects WSU professor as research award recipient," Dayton Daily News, June 29, 2009.
22. "WSU Developing New Web Technologies," interview in the Dayton Daily News, April 16, 2007.
23. "New Ground in Web technology affecting health care" HULIQ, March 29, 2007
24. Wright State researchers pioneer new ground in Web technology affecting health care, terrorism, defense, and financial services," WSU Communications & Marketing. March 27, 2007.
25. NSA Datamining Social Media Sites, O'Reilly Radar, June 9, 2006
[One of the several media stories/articles that was kicked off by our WWW2006 paper on Semantic Analytics on Social Networks]
26. 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.
27. Apps Make Semantic Web a Reality, SD Times, April 1, 2005
[Discusses a variety of Semantic Web technology powered commercial applications powered by Semagix Freedom that used ontologies, semantic annotations, and semantic search, browsing, path computations, etc.]
28. Semagix CTO will Present Strategies for Achieving the Potential of the Semantic Web through an Ontology-Based SmartData Approach, PRNewswire, Oct 26, 2004
[Outlining the vision of achieving the Semantic Web and for realizing productivity, efficiency, and effectiveness gains by using semantics to transform raw data into **Smart Data**.]
29. "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, volume 1, issue 1, April 2004. ([copy](#))
30. Semagix' CIRAS - A 'Trend-Setting Product of 2003'; Recognition of Innovation in Knowledge Management, Business Wire, July 21, 2003
[Discusses the technology and product that uses Semantic Web technology for Financial Services apps; product developed by my team at Taalee/Voquette/Semangix based technology described in [this patent](#)]
31. "When Academicians Become Entrepreneurs," a profile of Dr. Amit Sheth in the Sandpaper, May 2003. ([copy](#))
32. Athens Herald on Founding Taalee, June 10, 2001.
33. Streaming Semantic Search Engine That Reads Your Mind, Streaming Media World, Aug 10, 2000
[An interview that describes Taalee's Semantic Search Engine that used ontologies/knowledge base, similar to the use of knowledge graph by search engines in 2013s]
34. "Interview: Amit Sheth on Workflow Technology," by Sushil Jajodia, IEEE Concurrency, April–June 1998, pp. 21–23.
35. 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).

36. Interviews discussing the future of 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 news papers in India with largest circulation in Business and General categories, respectively).
37. Biographical profiles published in a Gujarati book (1996) and an English (1997) book.
38. 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).

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. Co-Chair, W3C XG on Semantic Sensor Networking, 2010-2013.
2. World Wide Web Consortium (W3C) Advisory Committee Member, 2004–2013.

3. Director, SSAIE's Summer School on Service Oriented Computing 2011
4. Advisory Board of Semantic Web Challenge 2005. Also in 2006.
5. Member, Semantic Web Services Initiative Architecture Committee (SWSA), 2004–2005.
6. Faculty, Institute of Bioinformatics, UGA, 2004– present.
7. Faculty, Biomedical and Health Science Institute, UGA, 2004.
8. Associate Editor for SIGMOD Record, 1988–present. Also edited research center reports.
9. 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 Madeira, 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 (as of Apr 2012)

1. **General Co-Chair**, 2nd International Workshop on Internet of Things (C-IoT 2014), in conjunction with CollabCoM2014), Miami, FL, October 22, 2014.
2. **Advisor**, 5th Workshop on Semantics for Smarter Cities ([SCAS2014](#)), collocated at ISWC 2014, Riva del Garda, Italy, October 19, 2014.
3. Advisor, 7th International Workshop on Semantic Sensor Networks (SSN2014) collocated at ISWC2014, Riva del Garda, Italy, October 19 2014.
4. Advisor, 6th International Workshop on Semantic Sensor Networks (SSN2013) collocated at ISWC2013, Sydney, Australia, October 22, 2013.
5. Advisor, 5th International Workshop on Semantic Sensor Networks (SSN2012) collocated at ISWC2012, Boston, MA, Nov 10, 2012.
6. **Co-Chair**, Mining Data Semantics ([MDS 2011](#)) Workshop, San Diego, CA, August 21-24, 2011.
7. **Director**, Summer School on Service Oriented Computing ([SummerSoc](#)), Hersonissos, Crete, Greece, June 27-July 3, 2011.
8. **Advisory Committee Member**, WIMS 2011, The International Conference on Web Intelligence, Mining and Semantics, Sogndal, Norway, May 25-27, 2011.
9. **Advisor, Program Committee**, The 3rd International Workshop on Semantic Sensor Networks 2010 ([SSN10](#)), A workshop of the 9th International Semantic Web Conference (ISWC 2010), Shanghai, China, November 7-11, 2010.
10. **Co-Organizer**, First International Workshop on Traceability and Compliance of Semi-Structured Processes ([TC4SP2010](#)), co-located with the 8th International Conference on Business Process Management (BPM2010), Hoboken, New Jersey, September 13, 2010.

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11. **Co-Organizer**, [Semantic Challenges in Sensor Networks](#), Dagstuhl, Germany, January 24-29, 2010.
12. **Co-Chair**, [W3C Semantic Sensor Networks Incubator Group](#), October 2008-March 2010.
13. **Program Committee Co-Chair**, International Workshop on Community-Based Evolution of Knowledge-Intensive Systems ([COMBEK'09](#)), Vilamoura, Portugal, November 1-6, 2009.
14. **Steering Committe Chair and Program Committee Member**, [2nd International Workshop on Semantic Sensor Networks 2009](#). A workshop of the 8th International Semantic Web Conference ([ISWC 2009](#)), Washington, DC, USA. October 25-29, 2009.
15. **Steering Committee Chair and Program Committee Member**, [The First International Workshop on the role of Semantic Web in Provenance Management](#) Co-located with the 8th International Semantic Web Conference [ISWC 2009](#), Washington, DC, USA. October 25-29, 2009.
16. **Co-Organizer**, [Sensor Web Enablement](#), Baltimore, Maryland, May 18-22, 2009.
17. **Scientific Steering Committe and Organizing Committee**, International Workshop on Community-Based Evolution of Knowledge-Intensive Systems ([COMBEK'08](#)), Monterrey, Mexico, November 9-14, 2008.
18. **Program Committee Chair**, 7th International Semantic Web Conference ([ISWC 2008](#)), Karlsruhe, Germany, October 26-30, 2008.
19. **Steering Committee Chair**, Advances in Semantics for Web Services 2008 ([semantics4ws 2008](#)), Milan, Italy, September 1-4, 2008.
20. **Steering Committee**, 2nd IEEE International Conference on Semantic Computing (ICSC 2008), Santa Clara, CA, August 4-7, 2008.
21. **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.
22. **Co-organizer**, WWW08 International Workshop on Context Enabled Source and Service Selection, Integration, and Adaptation ([CSSIA 2008](#)), Beijing, China, April 22, 2008.
23. **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.
24. **Co-organizer**, 2d Workshop on Advances in Semantics for Web Services ([semantics4ws'07](#)) at BPM 2007, Brisbane, Australia, September 24, 2007.
25. **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.
26. **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.
27. **Co-Organizer**, Autonomic Web Services, [Dagstuhl Seminar 07061](#), February 4-9, 2007.
28. **Industry Track Chair and Sponsorship Chair**, 5th International Semantic Web Conference, Athens, GA, November 6-9, 2006.
29. **Program Co-Chair** 4th International Conference on Business Process Management (BPM 2006), Vienna, Austria, September 2006.

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30. **General Chair**, 3rd International Workshop on Semantic and Dynamic Web Processes (SWDP2006), Chicago, September 18, 2006.
31. **Program Committee Chair**, Fourth International Conference on Business Process Management ([BPM 2006](#)), Vienna, Austria, September 5-7, 2006.
32. **Co-organizer and Program Committee Chair**, Advances in Semantics for Web Services Workshop ([semantics4ws'06](#)), at BMP 2006, Vienna, Austria, September 4, 2006.
33. **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.
34. **Program Co-Chair, AI-Driven Technologies for Services-Oriented Computing** (AAAI-06 Workshop), Boston, MA, July 16-17, 2006.
35. **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.
36. **Organizing Committee**, ESWC'06 Industry Forum Day Business Applications of Semantic Web technology, Budva, Montenegro, June 11-14, 2006.
37. **General Chair**, 3rd International Workshop on Semantic Web and Databases ([ICDE SWDB'06](#)) at ICDE2006, Atlanta, GA, April 7, 2006.
38. **PC Co-chair**, International Workshop on Semantics enabled Networks and Services (ICDE SeNS 2006) at ICDE2006, April 3, 2006, Atlanta, GA.
39. **Co-organizer**, "[Semantic Web meets eGovernment](#)," AAAI Spring Symposium Series (SSS-06), Sanford University, CA, March 27-29, 2006.
40. **Co-chair**, Organization Committee, the International Workshop in Dynamic Web Processes ([DWP 2005](#)) at ICSOC 2005, Amsterdam, NL, December 12, 2005.
41. **Co-chair**, 2nd International Workshop on "[Semantic and Dynamic Web Processes](#)" (SDWP2005) Orlando, FL, USA, July, 2005.
42. **Co-organizer**, [Semantic Interoperability and Integration](#), Dagstuhl Seminar 04391, Dagstuhl, Germany, September 19-24, 2004.
43. **Program Co-Chair**, 2004 IEEE International Conference on Services Computing (SCC 2004), Shanghai, China, September 15-18 2004.
44. **Co-organizer**, 1st International Workshop on Semantic Web Services and Web Process Composition (SWSWPC 2004) San Diego, California, USA, July 6-9, 2004.
45. **Co-organizer**, NASA Workshop on the Knowledge Integrating Virtual Iron Bird, March 31- Aril 2, 2004.
46. **Co-Chair**, UCGIS Homeland Security Workshop, Nov 5-7, Amicalola Falls and State Park, GA, Nov. 5-7, 2003.
47. **Co-Chair**, Workgroup on Semantic Web, NSF 2002 Workshop on Information and Data Management:, Arlington, VA, May 5-7, 2002.
48. **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.
49. **Co-Organizer**, 2nd International Workshop on the Semantic Web - SemWeb'2001 at WWW10, Hongkong, May 1, 2001.
50. **Program co-chair**, IEEE conference on Advances in Digital Library, Washington DC, May 2000.

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51. **Co-Director**, NATO Advanced Study Institute on Workflow Systems and Interoperability , August 12-22, Istanbul, Turkey.
52. **General (Co-)Chair**, 1st International Conference on Interoperable and Cooperative Information Systems (CoopIS '96), June 1996.
53. **Program Chair and Organizing Committee Chair**, NSF workshop on Workflow and Process Automation: State-of-the-art and Future Directions, May 1996.
54. **Program (Co-)Chair**, 3rd International Conference on Parallel and Distributed Information Systems, 1994.
55. **Program Vice Chair**, Technology and Applications Track, the 10th International Conference on Data Engineering, 1994.
56. **Program (Co-)Chair**, 3rd RIDE-International Workshop on Interoperability in Multidatabase Systems, April 1993.
57. **General Chair**, 1st International Conference on Parallel and Distributed Information Systems, 1991.
58. **Program Vice-Chair** 6th IEEE International Conference on Data Engineering, 1990.
59. **Chair** Workshop on Management of Interdependent Data in Bellcore and BCCS, 1990.
60. **Program Vice-Chair** 5th IEEE International Conference on Data Engineering, 1989.

Other Organization Committee Roles (as of 2011)

1. **Advisory Committee Member**, Ontology Summit 2014, in Arlington, VA, USA, from April 28 – 29, 2014.
2. **Scientific Steering Committee and Organizing Committee**, CooPIS and ODBASE Conferences, Monterrey, Mexico, November 9–14, 2008.
3. **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.
4. **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.
5. **Steering Committee**, 2nd IEEE International Conference on Semantic Computing (ICSC 2008), Santa Clara, CA, August 4–7, 2008.
6. **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.
7. **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.
8. **Co-organizer**, 2d Workshop on Advances in Semantics for Web Services (semantics4ws'07) at BPM 2007, Brisbane, Australia, September 24, 2007.
9. **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.

10. **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.
11. **Co-Organizer**, Autonomic Web Services, [Dagstuhl Seminar 07061](#), February 4-9, 2007.
12. **Industry Track and Sponsorship Chair**, International Semantic Web Conference, Athens, GA, November 6-9, 2006.
13. **General Chair**, 3rd International Workshop on Semantic and Dynamic Web Processes ([SDWP2006](#)), Chicago, September 18, 2006.
14. **Co-organizer and Program Committee Chair**, Advances in Semantics for Web Services Workshop (semantics4ws'06), at BMP 2006, Vienna, Austria, September 4, 2006.
15. **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.
16. **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.
17. **Organizing Committee**, ESWC'06 Industry Forum Day Business Applications of Semantic Web technology, Budva, Montenegro, June 11-14, 2006.
18. **General Chair**, 3rd International Workshop on Semantic Web and Databases ([ICDE SWDB'06](#)) at ICDE2006, Atlanta, GA, April 7, 2006.
19. **Steering Committee**, [Semantic Web Services Challenge 2006](#): Challenge on Automating Web Services Mediation, Choreography and Discovery, Stanford University, March 27-29, 2006.
20. **Co-organizer**, "Semantic Web meets eGovernment," AAAI Spring Symposium Series (SSS-06), Sanford University, CA, March 27-29, 2006.
21. **Co-chair**, Organization Committee, the International Workshop in Dynamic Web Processes ([DWP 2005](#)) at ICSOC 2005, Amsterdam, NL, December 12, 2005.
22. **Co-chair**, 2nd International Workshop on "Semantic and Dynamic Web Processes" ([SDWP2005](#)) Orlando, FL, USA, July, 2005.
23. **Co-organizer**, "Semantic Interoperability and Integration," Dagstuhl Seminar 0 4391, Dagstuhl, Germany, September 19-24, 2004.
24. **Co-organizer**, 1st International Workshop on Semantic Web Services and Web Process Composition ([SWSWPC 2004](#)) San Diego, California, USA, July 6-9, 2004.
25. **Co-organizer**, NASA Workshop on the Knowledge Integrating Virtual Iron Bird, March 31- Aril 2, 2004.
26. **Co-Chair**, UCGIS Homeland Security Workshop, Nov 5-7, Amicalola Falls and State Park, GA, Nov. 5-7, 2003.
27. **Co-Chair**, Workgroup on Semantic Web, NSF 2002 Workshop on Information and Data Management:, Arlington, VA, May 5-7, 2002.
28. **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.
29. **Co-Organizer**, 2nd International Workshop on the Semantic Web - SemWeb'2001 at WWW10, Hongkong, May 1, 2001.

30. **Steering Committee**, Semantic Web Services Challenge 2006: Challenge on Automating Web Services Mediation, Choreography and Discovery, Stanford University, 2006.
31. **Panel Chair**, Federated Conferences ODBASE/CooPIS 2002, Irvine CA, October 2002.
32. **Steering Committee**, Science on the Semantic Web: Building the Next Generation of Environmental Information Systems, Rutgers University, NJ, October 24, 25, 2002.
33. **Steering Committee Chair and founder**, 1st ACM International Conference on Work Activity Coordination and Collaboration, February 1999, San Francisco, CA.
34. **Panel Chair**, 5th International Conference on Information and Knowledge Management (CIKM'96), Rockville, MD, November 12–16, 1996.
35. **Panel Co-Chair**, 22nd International Conference on Very Large Data Bases, Bombay, India, September 1996.
36. **Founding Member and Executive Committee Member/Treasurer**, International Foundation on Cooperative Information Systems, 1995–present.
37. **Steering Committee Member**, International Conference on Parallel and Distributed Information Systems, 1995–present.
38. **Panel Chair and Member of Organization Committee**, 6th IFIP TC-2 Working Conference on Data Semantics (DS-6), Stone Mountain, GA, June 1995.
39. **Tutorial Chair**, ACM SIGMOD Conference, 1993.
40. **Tutorial Chair**, 7th IEEE International Conference on Data Engineering, 1988 and 1991.
41. **Secretary and Treasurer** of the executive committee of the IEEE CS TC on Data Engineering, 1992–present.
42. **Publication Chair**, 1st International Workshop on Interoperability in Multidatabase Systems (IMS '91), April 1991.
43. **Associate Editor** for SIGMOD Record, 1988–2005.
44. **Tutorial Chair**, 4th IEEE International Conference on Data Engineering, 1988.

Program Committee Member for International Conferences and Workshops (as of 2011)

1. 4th International Conference on Data Management Technologies and Applications" - DATA 2015, Colmar, France, July 20-22, 2015.
2. IFIP Workshop on Semantic Web & Web Semantics (SWWS) at [OTM 2014](#), Amantea, Calabria, Italy, from October 27 – 31, 2014.
3. OnTheMove ([OTM 2014](#)), in Amantea, Calabria, Italy, October 27 – 31, 2014.
4. 8th International AAAI Conference on Weblogs and Social Media, Ann Arbor, MI, USA, June 2-4, 2014.
5. 23rd International World Wide Web Conference (WWW 2014) Seoul, Korea, April 7-11, 2014.
6. [Semantics for Big Data, AAAI 2013 Fall Symposium](#); Westin Arlington Gateway in Arlington, Virginia, November 15-17, 2013.
7. Twenty-Seventh AAAI Conference on Artificial Intelligence ([AAAI-13](#)) Bellevue, Washington, USA, July 14–18, 2013.
8. [Extended Semantic Web Conference](#), Montpellier, France, May 26-30, 2013.
9. [22nd International World Wide Web Conference](#), Rio de Janeiro, Brazil, May 13-17, 2013.

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10. [2nd International Workshop on Real-Time Analysis of Social Streams](#), Rio de Janeiro, Brazil, May 14, 2013.
11. [24th ACM Conference on Hypertext and Social Media](#), Paris, France, May 1-3, 2013.
12. [10th International Semantic Web Conference \(ISWC 2012\)](#), Boston, MA, USA, Boston, MA, USA.
13. [31st International Conference on Conceptual Modeling \(ER2012\)](#), Florence, Italy, October 15-18, 2012.
14. [Knowledge Engineering and Knowledge Management that Matters](#), Galway, Ireland, Octrtober 8-12, 2012.
15. [Data Integration in the Life Sciences 2012](#), College Park, Maryland, USA, June 28-29, 2012.
16. [ACM Hypertext and Social Media Conference](#), Milwaukee, WI, June 25-28, 2012.
17. [International Provenance and Annotation Workshop](#), Santa Barabara, CA, USA, June 18-22, 2012.
18. [6th International Conference on Weblogs and Social Media](#), Dublin, Ireland, June 4, 2012.
19. [Extended Semantic Web Conference](#), Heraklion, Crete, Greece, May 27-31, 2012.
20. 21st International Conference on World Wide Web ([WWW2012](#)), in Lyon, France, from April 16-20, 2012.
21. [10th International Semantic Web Conference \(ISWC 2011\)](#), Bonn, Germany, October 23-27, 2011.
22. [4th International Workshop on Semantic Sensor Networks 2011 \(SSN11\)](#), A Workshop of the 10th International Semantic Web Conference (ISWC 2011), Bonn, Germany, October 23-27, 2011.
23. [5th International AAAI Conference on Weblogs and Social Media \(ICWSM-11\)](#) from July 17-21, 2011 in Barcelona, Spain.
24. 8th Extended Semantic Web Conference ([ESWC 11](#)), Heraklion, Greece, May 29-June 2, 2011.
25. Workshop on The Future of the Web For Collaborative Science ([HCLS](#)), to be co-located at WWW2010, Raleigh Convention Center, Raleigh, NC, USA, April 26-30, 2011.
26. 3rd Asian Semantic Web Conference ([ASWC 2008](#)), Thailand, December 8-11, 2008.
[Senior Program Committee Member]
27. AAAI-13 Special Track on AI and the Web (AAAI-13 AIW) in Bellevue, WA, July 14-18, 2013.
28. ASME 2013 Summer Heat Transfer Conference (HT2013), in Minneapolis, MN, July 14-19, 2013.
29. The 7th International AAAI Conference on Weblogs and Social Media (ICWSM-13), in Boston, MA, July 8-11, 2013.
30. 10th Extended Semantic Web Conference (ESWC 2013), Montpellier, France, May 2013.
31. 11th International Semantic Web Conference (ISWC 2012-Industry), in Boston, MA, November 11-15, 2012.
32. Knowledge Engineering and Knowledge Management 2012 (EKAQ 2012), in Galway City, Ireland, October 8-12, 2012.
33. 31st International Conference on Conceptual Modeling (ER 2012), in Florence, Italy, October 15-18, 2012.

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34. Data Integration in the Life Sciences 2012 (DILS 2012), in College Park, MD, June 28-29, 2012.
35. 4th International Provenance and Annotation Workshop (IPA 2012), in Santa Barbara, CA, June 18-22, 2012.
36. 6th International AAAI Conference on Weblogs and Social Media (ICWSM-12), in Dublin, Ireland, June 4, 2012.
37. 9th Extended Semantic Web Conference (ESWC 2012), in Heraklion, Crete, Greece, May 27-31, 2012.
38. Real-Time Analysis and Mining of Social Streams (RAMSS 2013), in Rio de Janeiro, Brazil, May 14, 2013.
39. 22nd International World Wide Web Conference (WWW2013), in Rio de Janeiro, Brazil, May 13-17, 2013.
40. 21st International Conference on World Wide Web (WWW2012), in Lyon, France, from April 16-20, 2012.
41. The 10th International Semantic Web Conference (ISWC 2011), Bonn, Germany, October 23-27, 2011.
42. The 10th International Semantic Web Conference – Outrageous Ideas Track (ISWC2011-Outrageous-Ideas), Bonn, Germany, October 23-27, 2011.
43. The 4th International Workshop on Semantic Sensor Networks 2011 (SSN11), A workshop of the 10th International Semantic Web Conference (ISWC 2011), Bonn, Germany, October 23-27, 2011.
44. Fifth International AAAI Conference on Weblogs and Social Media (ICWSM-11) from July 17-21, 2011 in Barcelona, Spain.
45. Workshop on Language in Social Media (LSM 2011), Portland, Oregon, June 23, 2011.
46. 8th Extended Semantic Web Conference (ESWC 11), Heraklion, Greece, May 29-June 2, 2011.
47. Workshop on The Future of the Web For Collaborative Science (HCLS), co-located at WWW2010, Raleigh Convention Center, Raleigh, NC, USA, April 26-30, 2011.
48. 20th International World Wide Web Conference, Hyderabad, India, March 28-April 1, 2011.
49. 6th Conference Professional Knowledge Management, Innsbruck, Austria, February, 21-23, 2011.
50. (IEEE CogSIMA 2011), Miami Beach, Florida, USA, February 22-24, 2011.
51. Workshop on Sensor-Enabled Situational Awareness, In conjunction with 12th International Conference on Distributed Computing and Networking (ICDCN 2011), Bangalore, India, January 2, 2011.
52. **(WM2011)**
53. Ninth International Semantic Web Conference (ISWC 2010), Shanghai, China, November 7-11, 2010.
54. 8th International Conference on Business Process Management (BPM 2010), Hoboken, N.J., September 13-16, 2010.
55. 3rd International Workshop on Semantic Sensor Networks 2010 (SSN10), A workshop of the 9th International Semantic Web Conference (ISWC 2010), Shanghai, China, November 7-11, 2010

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- 56. [Sixth Conference on Prestigious Applications of Intelligent Systems](#) (PAIS), collocated to ECAI 2010, Lisbon, Portugal, August 16-20, 2010.
- 57. Twenty-Fourth AAAI Conference on Artificial Intelligence ([AAAI2010](#)) Atlanta, Georgia, USA, July 11-15, 2010.
- 58. [4th Int'l AAAI Conference on Weblogs and Social Media](#), Washington, DC, May 23-26, 2010.
- 59. 3rd CFP: The Future of the Web for Collaborative Science (FWCS2010) at WWW'10, in Raleigh, N.C., April 26-30, 2010.
- 60. [7th International Workshop on Middleware for Grids, Clouds and e-Science \(MGC2009\)](#), in conjunction with 10th International Middleware Conference 2009, Urbana Champaign, IL, December 1, 2009.
- 61. [2011 IEEE Conference on Cognitive Methods in Situation Awareness and Decision Support](#)
- 62. [28th International Conference on Conceptual Modeling](#), (ER 2009), Gramado, Brazil, November 9-12, 2009.
- 63. 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.
- 64. International Workshop on Community-Based Evolution of Knowledge-Intensive Systems ([COMBEK'09](#)), Vilamoura, Portugal, November 1-6, 2009.
- 65. [3rd International Workshop on Web APIs and Services and Services Mashups @ OOPSLA](#) (Mashups09), Orlando, FL, October 25, 2009.
- 66. 8th International Semantic Web Conference ([ISWC 2009](#)), Washington, DC, October 25-29, 2009.
- 67. 5th IEEE Workshop on Situation Management (SIMA 2009) in conjunction with IEEE MILCOM 2009, World Trade Center, Boston, MA, October 19-21, 2009.
- 68. Advanced Knowledge-Based Systems, 13th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems ([KES 2009](#)), Santiago Chile, September 28-30, 2009.
- 69. [Business Process Management Conference 2009](#) (BPM 2009), Ulm University, Germany, September 8-10, 2009.
- 70. [1st International Workshop on the Semantic Sensor Web](#) (SemSensWeb2009), Heraklion, Crete, Greece, June 1, 2009.
- 71. [18th International World Wide Web Conference](#), Madrid, Spain, April 20-24, 2009.
- 72. 3rd Asian Semantic Web Conference ([ASWC 2008](#)), Bangkok, Thailand, February 2-5, 2009.
- 73. [Second International Workshop on Web APIs and Service Mashups](#) (Mashups'08), at ICSOC 2008, Sydney, Australia, December 1, 2008. [Multimedia 2008](#), 2nd International Workshop on the Many Faces of Multimedia Semantics, Vancouver, Canada, October 27–November 1, 2008.
- 74. 7th International Semantic Web Conference ([ISWC 2008](#)), Karlsruhe, Germany, October 26-30, 2008.
- 75. International Conference on Web Services ([ICWS 2008](#)), Beijing, China, September 23-26, 2008.

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- 76. 10th International Conference on Visual Information Systems ([VISUAL2008](#)), Salerno, Italy, September 11–12, 2008.
- 77. 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.
- 78. 5th European Semantic Web Conference (ESWC 2008 Ph.D. Symposium) Tenerife, Spain, June 1–5, 2008.
- 79. [Semantic Web for Health Care and Life Sciences Workshop](#) (HCLS2008), held in conjunction with 17th International World Wide Web Conference, Beijing, China, April 22, 2008.
- 80. Semantic Web for Health Care and Life Sciences Workshop , Beijing, China, April 22, 2008
- 81. Workshop on Information Systems Economics ([WISE 2007](#)), Montreal, Quebec, Canada, December 8–9, 2007.
- 82. 1st International Workshop on Networking for Distributed Knowledge Management ([NDKM'07](#)), Albufeira, Portugal, November 25–30, 2007.
- 83. 3rd International IFIP Workshop on Semantic Web & Web Semantics (IFIP SWWS 2007), Albufeira, Portugal, November 25–30, 2007.
- 84. 6th International Semantic Web Conference and 2nd Asian Semantic Web Conference, Busan, Korea, November 11–15, 2007
- 85. 1st Workshop CyberInfrastructure: Information Management in eScience (CIMS), Collocated with ACM CIKM 2007, Lisbon, Portugal, November 9, 2007.
- 86. International Conference on Advances in Semantic Processing (SEMAPRO 2007), Papeete, French Polynesia, November 4–9, 2007.
- 87. Workshop on Cyberinfrastructure for e-Science (CylineS 2007), IEEE/WIC/ACM Joint Conference on Web Intelligence and Intelligent Agent Technology, Silicon Valley, CA, November 2–5, 2007
- 88. 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.
- 89. 11th International Workshop on Cooperative Information Agents ([CIA 2007](#)), Delft, Netherlands, September 19–21, 2007.
- 90. 22nd National Conference on Artificial Intelligence: AAAI-based7 (Special track on Artificial Intelligence and the Web), Vancouver, British Columbia, Canada, July 22–26, 2007.
- 91. 9th International Conference on e-Health Networking, Applications and Services, Taipei, Taiwan, June 19–22, 2007.
- 92. 1st International Conference on Web Reasoning and Rule Systems, Innsbruck, Austria, June 7–8, 2007.
- 93. 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.
- 94. 16th International World Wide Web Conference (WWW2007), Semantic Web track, Banff, Canada, May 10–12, 2007.

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95. 16th International World Wide Web Conference (WWW2007), Banff, Alberta, Canada, May 8-12, 2007.
96. 5th International Semantic Web Conference (ISWC 2006), Senior PC member/meta-reviewer, Research/Academic track, Athens, GA, November 5–9, 2006.
97. 4th IEEE International Conference on Web Services, Chicago, IL, September, 2006.
98. 1st Asian Semantic Web Conference, Beijing, China, September 5–7, 2006.
99. 21st National Conference on Artificial Intelligence (AAAI-06), Boston, MA, July 16–20, 2006.
100. 3rd Annual European Semantic Web Conference (ESWC2006), Budva, Montenegro, June 2006. (Senior PC Member)
101. 15th International World Wide Web Conference (WWW2006), XML and Web Services track, Edinburgh, Scotland, May 22–26, 2006.
102. 15th International World Wide Web Conference (WWW2006), E-Applications track, Edinburgh, Scotland, May 22–26, 2006.
103. 15th International World Wide Web Conference (WWW2006), E* track, Edinburgh, Scotland, May 22–26, 2006.
104. IEEE Intelligence and Security Informatics (ISI) Conference, San Diego, CA, May 22–24, 2006.
105. IEEE International Conference on Granular Computing, Atlanta, GA, May 10–12, 2006.
106. 22nd International Conference on Data Engineering, Atlanta, GA, April 3–7, 2006.
107. 2nd International Workshop on Database Interoperability (InterDB2006), April 2006.
108. 6th International Conference on Web Information Systems (WISE 2005), New York, NY, December 2005.
109. 1st International Conference on Geospatial Semantics (GeoS 2005), Mexico City, Nov 29–30, 2005.
110. 4th International Semantic Web Conference (ISWC 2005), Senior PC member, Research/Academic track, Galway, Ireland, November 6–10, 2005.
111. 4th International Semantic Web Conference (ISWC 2005), Industrial track, Galway, Ireland, November 6–10, 2005.
112. 4th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE), Agia Napa, Cyprus, Oct 31 – Nov 4, 2005.
113. K-Cap Workshop on Integrating Ontologies, Banff, Canada, October 2, 2005.
114. IFIP Working Conference on Virtual Enterprises (PRO-VE'05), Valencia, Spain, September 26–28, 2005.
115. 2005 IEEE Service International Conference on Services Computing (SCC 2005), Orlando, FL, July 12–15, 2005.
116. 3rd IEEE International Conference on Web Services, Orlando, FL, July 12–15, 2004.
117. 1st International Workshop on Contexts and Ontologies: Theory, Practice and Applications (an AAAI'05 Workshop), Pittsburgh, PA, July 9–10, 2005.
118. W3C Workshop on Frameworks for Semantics in Web Services, Innsbruck, Austria, June 9–10, 2005.
119. IEEE International Conference on Intelligence and Security Informatics (ISI-2005), Atlanta, GA, May 19–20, 2005.

120. 14th International World Wide Web Conference (WWW2005), Semantic Web Track, Chiba, Japan, May 10–14, 2005.
121. 21st International Conference on Data Engineering, Tokyo, Japan, April 2005.
122. 1st UK Young Researchers Workshop on Service Oriented Computing (YR-SOC), Leicester, UK, April 21–22, 2005.
123. 2nd International Conference on Service Oriented Computing (ICSO'04), New York, NY, November 15–19, 2004.
124. 3rd International Conference on Semantic Web, Industry PC, Hiroshima, Japan, November 7–11, 2004.
125. 1st International Workshop on Semantic Web Technologies in Electronic Business, Berlin, Germany, October 11–13, 2004.
126. AAAI 2004 Workshop on Semantic Web Personalization, San Jose, CA, July 25–26, 2004.
127. IEEE International Conference on Web Services (ICWS 2004), San Diego, CA, July 6–9, 2004.
128. 13th International World Wide Web Conference (WWW2004): Web Services track, New York, NY, May 17–22, 2004.
129. 13th International World Wide Web Conference (WWW2004): Semantic Web track, New York, NY, May 17–22, 2004.
130. 2nd Workshop on Semantics in Peer-to-Peer and Grid Computing (at WWW2004), New York, May 17–18, 2004.
131. 4th International Conference on Web Information Systems Engineering (WISE'03), Rome, Italy, December 10–12, 2003.
132. 2nd International Conference on Ontologies, DataBases, and Applications of Semantics for Large Scale Information Systems (ODBASE'03), Sicily, November 3–7, 2003.
133. 12th International Conference on Information and Knowledge Management (CIKM 2003), New Orleans, LA, November 2–8, 2003.
134. 2nd International Semantic Web Conference, Sanibel, FL, October 20–24, 2003. (Senior PC Member)
135. Semantic Integration Workshop (at ISWC2003), Sanibel Island, FL, October 20, 2003.
136. Workshop on Semantic Web Technologies for Searching and Retrieving Scientific Data (at ISWC2003), Sanibel Island, FL, October 20, 2003.
137. Workshop on Practical and Scalable Semantic Systems (at ISWC2003), Sanibel Island, FL, October 19, 2003.
138. 2003 IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003), Beijing, China, October 13–17, 2003.
139. ICEC Workshop on Semantic Web Services for Enterprise Application Integration and E-Commerce, Pittsburg, PA, September 30–October 3, 2003.
140. Semantic Web Services for Enterprise Application Integration and E-Commerce (SWSEE03), Pittsburgh, PA, September 30, 2003.
141. 4th Annual International Conference on Object-oriented and Internet-based Technologies, Concepts, and Applications for a Networked World, Thuringia, Germany, September 22–25, 2003
142. Workshop on Semantic Web and Databases at the 29th International Conference on Very Large Data Bases (VLDB 2003) Berlin, Germany, September 9–12, 2003.

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143. 1st International Workshop on Semantic Web and Databases, Berlin, Germany, September 7–8, 2003.
144. 7th International Workshop CIA-2003 on Cooperative Information Agents, Helsinki, Finland, August 27–29, 2003.
145. IEEE Conference on E-Commerce (CEC03), Newport Beach, CA, June 24–27 2003.
146. IEEE International Conference on Electronic Commerce (CEC'03), Newport Beach, CA, June, 2003.
147. 12th International World Wide Web Conference (WWW2003), Budapest, Hungary, May 20–24, 2003.
148. 1st Workshop on Semantics in Peer-to-Peer and Grid Computing at WWW 2003, Budapest, Hungary, 20 May 2003.
149. 1st International Conference on Ontologies, DataBases, and Applications of Semantics for Large Scale Information Systems (ODBASE'02), October 29–31, 2002.
150. 3rd International Symposium on Multi-Agent Systems, Large Complex Systems, and E-Businesses (MALCEB'2002), Erfurt, Thuringia, Germany, 8–10 October 2002.
151. 3rd Annual International Conference on Object-oriented and Internet-based Technologies, Concepts, and Applications for a Networked World, Thuringia, Germany, October 7–10, 2002.
152. Net.Object Days 2002, Erfurt, Germany, October 7–10, 2002.
153. 6th International Workshop CIA-2002 on Cooperative Information Agents, Madrid, Spain, September 18–22, 2002.
154. 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.
155. 1st International Semantic Web Conference (ISWC-2002), Sardinia, Italy, June 10–12, 2002.
156. 11th International World Wide Web Conference (WWW2002), Semantic Web Track, Honolulu, HI, May 7–11, 2002.
157. 1st WWW 2002 Workshop on Real World RDF and Semantic Web Applications, Honolulu, HI, May 7, 2002.
158. 5th International Workshop CIA-2001 on Cooperative Information Agents, Modena, Italy, September 6–8, 2001.
159. 6th International Conference on Cooperative Information Systems (CoopIS 2001), Trento, Italy, September 5–7, 2001.
160. International Semantic Web Workshop: Infrastructure and Applications for the Semantic Web, Stanford, CA, July 30–31, 2001.
161. Autonomous Agents 2001, Montreal, Canada, 28 May–1 June 2001
162. 2nd International Workshop on the Semantic Web (SemWeb'2001) at WWW10, Hong Kong, May 1, 2001.
163. International Workshop on Information Integration on the Web: Technologies and Applications, Rio de Janeiro, Brazil, April 9–11, 2001
164. 5th International Workshop on Groupware (CRIWG'99) September 21–24, 1999, Cancun, Mexico.

165. 3rd International Workshop on Cooperative Information Agents (CIA-99), Uppsala, Sweden, July 31–August 2, 1999.
166. 9th RIDE International Workshop on Information Technology for Virtual Enterprises, Sydney, Australia, March 23–24 1999.
167. 2nd International Conference on Interoperating Geographic Information Systems (Interop'99) , Zurich, Switzerland, March 10–12 1999.
168. CSCW Workshop on Adaptive Workflow Systems, Seattle, WA, November 14, 1998.
169. 5th International Conference of Foundations of Data Organization (FODO'98), Kobe, Japan, November 12–14, 1998.
170. 11th International Conference on Parallel and Distributed Computing Systems, Chicago, IL, September 2–4, 1998.
171. International Workshop on Workflow Management (WFM'98), Vienna, Austria, August 28, 1998.
172. 3rd IFCIS International Conference on Cooperative Information Systems (CoopIS'98), August 1998, New York, NY.
173. ACM SIGMOD Conference, Seattle, Washington, June 2–4, 1998.
174. 18th International Conference on Distributed Computing Systems, Amsterdam, Netherlands, May 1998.
175. 6th International Conference on Extending Data Base Technology (EDBT'98), Valencia, Spain, March 23–27, 1998.
176. 2nd International Conference on Visual Information Systems (Visual '97), San Diego, CA December, 15–17, 1997.
177. International Conference on Management of Data (COMAD'97), Madras, India, December 1997.
178. 7th IFIP 2.6 Working Conference on Database Semantics (DS-7), Leysin, Switzerland, October, 7–10, 1997.
179. 8th International Conference on Database and Expert Systems Applications (DEXA'97), Toulouse, France, September 1–5, 1997.
180. 2nd IEEE Metadata Conference, Silver Spring, Maryland, September 16–17.
181. 1st IFCIS Conference on Cooperative Information Systems (COOPIS'96), Belgium, June 1996.
182. 5th International Conference on Extending Database Technology (EDBT'95), Avignon, France, March 1996
183. 5th IEEE RIDE Workshop on Interoperability of Nontraditional Databases (RIDE-IND'96), 1996.
184. 12th IEEE International Conference on Data Engineering, New Orleans, LA, February 1996.
185. 7th International Conference on Management of Data (COMAD'95), Pune, India, December 1995
186. 14th Object-oriented and Entity Relationship Modeling'95 (OO–ER95), Gold Coast, Australia, December 1995.
187. 4th International Conference on Information and Knowledge Management, Baltimore, MD, November 1995

188. 2nd Next Generation Information Technologies and Systems (NGITS-95), Israel, June 1995.
189. IFIP DS-6 Database Application Semantics, Georgia, May 1995.
190. 11th IEEE International Conference on Data Engineering, Taipei, Taiwan, April 1995.
191. 4th International Conference on Extending Database Technology (EDBT 95), Cambridge, UK, March 28–31, 1995.
192. 20th International Conference on Very Large Data Bases (VLDB 94), Chile, September 1994.
193. 1st International Conference on Application of Databases (ADB 94), Vadstena, Sweden, June 1994.
194. 2nd International Conference on Cooperative Information Systems (CoopIS 94), Toronto, Canada, May 17–20, 1994.
195. 10th IEEE International Conference on Data Engineering, April 1994.
196. 2nd International Conference on Information and Knowledge Management, 1993.
197. 9th IEEE International Conference on Data Engineering (ICDE 1993), Vienna, Austria, April 19–23, 1993.
198. 2nd International Conference on Parallel & Distributed Information Systems (PDIS 93), San Diego, CA, January 1993.
199. IFIP DS-5 Semantics of Interoperable Data Base Systems-92, Australia, November 1992.
200. 2nd International Workshop on Research Issues on Data Engineering: Transaction and Query Processing (RIDE-TQP), Tempe, AZ, February 2–3, 1992.
201. 8th IEEE International Conference on Data Engineering (ICDE 92), Tempe, AZ, February 1992.
202. 1st International Conference on Information and Knowledge Management (1991).
203. 21st International Conference on Distributed Computing Systems (ICDCS-21), Phoenix, AZ, April 16–19, 1991.
204. 1st International Workshop on Research Issues on Data Engineering: Interoperability in Multidatabase Systems (RIDE-IMS), Kyoto, Japan, April 7–9, 1991.
205. 7th IEEE International Conference on Data Engineering (ICDE 91), Kobe, Japan, April 8–12, 1991.
206. COMAD/Management of Data, Bombay, India, December 1991.
207. 1st International Conference on Databases, Parallel Architectures and their Applications (PARBASE-90), Miami, FL, March 6–9, 1990.
208. 2nd International Symposium on Database in Parallel and Distributed Systems, 1990.
209. 1st International Symposium on Database in Parallel and Distributed Systems, 1988.
210. 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

Ongoing	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)
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2008	Belgium (Flanders), SBO (Strategic Basic Research) Programme
2006	Austria, Fonds zur Förderung der wissenschaftlichen Forschung (FWF)
2006	German-Israeli Foundation for Scientific Research and Development
2005	Switzerland, Swiss National Foundation
2005	Singapore, Agency for Science, Technology & Research (A*STAR)
	Canada, National Science and Engineering Research Council, NSF-equivalent national research sponsorship organization (reviewer for several years)
2003	Norway, Research Council of Norway
2002	
1998	
1997	
1996	
2003	Australian Research Council, Expert Assessor of International Standing
2001	Ireland, Science Foundation
1999	Austria, Fonds zur Förderung der wissenschaftlichen Forschung (FWF)
2005	The Netherlands, Netherlands Organization for Scientific Research (NOW)
2003	
1996	Israel, Israel Science Foundation
1996	Hong Kong , National Research Grants Council

Chaired Technical Sessions (partial list)

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 (02/1996), 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, Session Chairs, etc.

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, Journal of Web Semantics, Software-Practice and Experiences, Information and Software Technology, Information Technology & Management, and practically all journals in the area of work. Chaired sessions at numerous conferences.

Society Memberships

2006 -	Fellow	IEEE and IEEE Computer Society including Technical Committee on Database Engineering
2003-2005	Senior Member	IEEE and IEEE Computer Society including Technical Committee on Database Engineering
1981 -	Member	Association for Computing Machinery, including SIGMOD

1997-2002	SIGGROUP
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Curriculum Development (Initiatives and Courses)

Initiatives

- Led development of Big and Smard Data MS certificate program starting August 2014 at Wright State University.
- On the steering committee of the New Media Institute, approved starting Fall 2000. It is 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

- **Advanced Topics in Semantic Web**, CS 79950, offered at Wright State University Fall 2013.
- **Web 3.0: Next Generation Web & Apps**, CS 7900, offered at Wright State University Spring 2013.
- **Semantics empowered Web 3.0**, CS4800/6800, offered at Wright State University Fall 2012.
- **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 inthe 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.

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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 79950	Advanced Topics in Semantic Web	F '13
CS 7900	Web 3.0: Next Gen Web & Apps	S '13
CS 4800/6800	Web Information Systems	F '12
CS 875	Semantic Web	S '12
CS 475/675	Web Information Systems	F '11
CS 875	Semantic Web	S '11
CS 475/675	Web Information Systems	F '10
CS 875	Semantic Web	S '10
CS 790	Web3.0: Social, Services, Sensor Semantic Web	W '09
CS 790	Web3.0: Social, Services, Sensor Semantic Web	S '09
CS 475/675	Web Information Systems	S '09
CS 795	Independent Study	F '08
CS 875	Semantic Web	F '08
CSCI8351	Semantic Web Services & Processes	S '06
CSCI4350/6350	Global Information Systems	S '05
CSCI8350	Semantic Web	F '05
CSCI8351	Semantic Web Services & Processes	S '04
CSCI8350	Semantic Web	F '04
CSCI4350/6350	Global Information Systems	S '03
CSCI8350	Semantic Web	F '03
CSCI8350	Semantic Web	S '02
CSCI8350	Semantic Enterprise	F '02
CSCI8350	Enterprise Integration (w/ Cardoso)	S '01
CSCI8350	Enterprise Integration (w/ Arpinar)	S '00
CSCI6350	Global Information Systems	F '99
CSCI8350	Enterprise Integration	S '99
CS 690	Global Information Systems	W '98
CS 835	Enterprise Integration	W '98
CS 690	Advanced Global Information Systems	S '98
CS 490/690	Global Information Systems	W '97
CS 835	Enterprise Integration	W '97
CS 203	Programming Project Designs	F '97
CS 490	Global Information Systems	W '96
CS 490/690	Global Information Systems	W '96
CS 835	Enterprise Integration	W '96

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CS 203	Programming Project Designs	F '96
CS 837	Advanced Database Systems	W '95
CS 490/690	Special Topics in Computer Science	Sp '95
CS 203	Programming Project Design	F '95

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.) [CIGNA]
- Devashish Worah, MS, "Error Handling and Recovery for the ORBWork Workflow Enactment Service in METEOR," June 1997. [Virtuasa]
- Srilekha Mudumbai, MS, "ZEBRA Image Access System," June 1997.
- Selvam Velmurugan, MS, "Collaborative Tele-Consulting for Healthcare: CATCH," September 1997. [Amazon, eMoksha/Kiirti, Groupon]
- 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. [Taalee/Semagix, Goldman Sachs]
- Vineet Mahajan, MS, "A Multi-Agent System for Metadata Management and Information Brokering," December 1999. [AOL]
- Subrajit Ray, MS, "Ontology-based Media Independent Correlation of Information Across Heterogeneous Distributed Sources," December 1999. [Deutsche Bank]
- Mukesh Guntamadugu, MS, "MÉTIS: Automating Metabase Creation from Multiple Heterogeneous Sources," July 2000. [CBS Interactive]
- Dilpreet Singh, MS, "An Agent Based Architecture For Query Planning And Cost Modeling Of Web Sources," July 2000. [Kana, Life360]
- Sriram Lakshminarayanan, "Semantic Interoperability in Digital Libraries using Inter-Ontological Relationships," July 2000. [Yahoo!]
- Narayan Palsena, MS, "A Collaborative Approach to Learning using Information Landscapes," 2000. [SAP]
- 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. [University of Hong Kong]
- 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. [SAP Research, University of Coimbra]
- Kaarthik Sivashanmuga, MS (co-adviser: J. Miller), "The METEOR-S Framework for Semantic Web Process Composition," August 2003. [Microsoft]
- 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," August 2004.
- Rohit Aggrawal, MS, August 2004. (co-adviser: J. Miller). [Convergys]
- Swapna Onudhakar, MS, December 2004. [ADP]
- William Milnor MS (co-adviser), Discovering Informative Subgraphs in RDF Graphs, August 2005. [Topquadrant]
- 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. [Accenture Labs]
- Kemafor Anyanwu,, PhD, "Building Statistical Summaries for Obtaining Accurate Estimates of the Cardinality of Graph Patterns for Optimizing Graph Pattern Matching Queries," August 2007. [North Carolina State University]
- Sujeeth Thirumalai, MS (co-advisor), "Keyword Search Interface for Path Queries on Ontology," August 2007.
- Cartic Ramakrishnan, PhD, "Extracting, Representing and Mining Semantic Metadata from Text: Facilitating Knowledge Discovery in Biomedicine," September 2008. [Information Sciences Institute]
- Matthew Perry, PhD, "A Framework to Support Spatial, Temporal and Thematic Analytics over Semantic Web Data," July 2008. [Oracle]
- Angela Maduko, PhD, "Building Statistical Summaries for Obtaining Accurate Estimates of the Cardinality of Graph Pattern Matching Queries," May 2009. [ADVIS Lab at University of Illinois at Chicago]
- Karthik Gomadam, PhD, "Semantics Enriched Service Environments," August, 2009. [Accenture Labs]
- Satya S. Sahoo, PhD, "Semantic Provenance: Modeling, Querying, and Application in Scientific Discover," July 2010. [Case Western Reserve University-tenure track]
- Meenakshi Nagarajan, PhD, "Understanding User-Generated Content on SocialMedia," August 2010. [IBM Almaden Research Center]
- Ashwin Manjunatha, M.S., "A Domain Specific Language Based Approach for Developing Complex Cloud Computing Applications," June 2011. [CISCO]
- Harshal Patni, M.S., "Real TimeSemantic Analysis of Streaming Sensor Data," June 2011. [Zynx Health]
- Prateek Jain, Ph.D., "Linked Open Data Alignment and Querying," August 2012. [IBM TJ Watson Resaerch Center]
- Ajith Ranabahu, "Abstraction Driven Application and Data Portability in Cloud Computing," August 2012. [Amazon's core Cloud Platform group]
- Christopher Thomas, "Knowlwedge Acquisition in a System", December 2012. [Samsung Research aqnd Development Center]

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- Cory Henson, "A Semantics-based Approach to Machine Perception Senior Research Engineer", September 2013
- Pablo Mendes, "Concentration: Information Extractio and Semantic Web", December 2013.
- Pratik Desai, "A Situation Awareness Framework for Indoor Cyber-Physical Systems Aided by Fuzzy Abductive Reasoning and Semantic Web", April 2013.
- Pablos Mendes, Ph.D., "Adaptive Semantic Annotation of Entity and Concept Mentions in Text", December 2013.
- Gaurish Anand, M.S., "Automatic Identification of Interestingness In Biomedical Literature," August 2014.
- Delroy Cameron, Ph.D., "A Context-Driven Subgraph Model for Literature-Based Discovery," December 2014.

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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 Politecnica 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

Pramod Anantharam(co-advisor); Shreyansh Bhatt; Delroy Cameron; Lu Chen; Hima Chenupati; Kalpa Gunaratna; Ashutosh Jadhav; Pavan Kapnipathi; Sarasi Lalithsena; Farahnaz Golrooy-Motlagh; Vinh Nguyen; Maryam Panahiazar; Sujan Perera; Hemant Purohit; Wenbo Wang; Sanjay Wijeratna.

Post Doctoral and Research Fellow Supervision (next appointment)

PostDoc (Where & When PostDoc Training)	Academic Degree Institution, Year	Title of Research Project	Current Position
Yanbo Han, (Univ of GA, 1995–1997)	Technical University of Berlin, 1995	METEOR: Healthcare Information Infrastructure Program—Enterprise Workflow Automation	Professor, North China University of Technology
Shengli Wu, Univ of GA, 2002-2002	Southeast University, Nanjing, China, 2000	Extending METEOR with workflow reuse, adaptation, and collaboration	Lecturer School of Computing and Mathematics University of Ulster
I.Budak Arpinar (Univ of GA, 12/1998 – 04/2001)	METU-Turkey, 1997	METEOR: Healthcare Information Infrastructure Program—Enterprise Workflow Automation	Assoc. Prof., University of Georgia
Farshad Hakimpour (Univ. of GA, 7/2005–7/2006)	Univ. of Zurich, 2003	SemDis: Discovering Complex Relationships in Semantic Web	Asst. Prof., Tehran University
Ramakanth Kavaluru (Wright State U, 09/2009 – 07/2011)	University of Kentucky, 2009	SemDIS: Discovering Complex Relationships in the Semantic Web	Asst. Prof., University of Kentucky
Kera Z. Watkins (Wright State U, 10/2012-2013)	North Carolina St. U, 2006	PREscription Drug abuse Online Surveillance and Epidemiology	Lecturer, Wright State University
Priti Parikh (Wright State U; 08/2009 – 12/2011)	Virginia Polytechnic Institute and State University, 2007	Semantics and Services Enabled Problem Solving Environment for Trypanosoma cruzi	Research Director and Asst. Prof., Surgery, Wright State University

Doctoral Students whose primary dissertation research was done under my supervision/mentorship

Eduardo Mena (Ph.D. candidate, Basque State University, Spain), Basque State U., 1996–1998 (Asst. Prof., Basque State U); 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.

University and Public Service

- Institute of Bioinformatics, membership committee, 2004–present.

- Board of Directors of the Service-Oriented Computing Summer School ([SummerSOC](#)), Hersonissos Crete Greece, June 27- July 2, 2011.
- Served as 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.
- 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

- Adivsry Committee Member of [2014 Ontology Summit](#)
- Member of Faculty Development Committee, 2010-present.
- Member of Graduate Faculty, 1994 – present.
- Member: Graduate School Policy Committee, Wright State University, 2008-present.
- Chair, Department Graduate Studies Committee, Wright State University, 2008-present.
- 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.