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 and maintains a very high publication impact. In recent years, it has shared 2nd place in World Wide Web (WWW) research with world-class universities for 5-year impact (<http://j.mp/www-Mar13>) and earned a spot among the top 10 universities in the world based on its 10-year impact (<http://j.mp/www-org-Jun15>).

Previously, Dr. Sheth was a professor at the University of Georgia, where he started the LSDIS lab in 1994. His professional appointments also include senior scientist/staff positions in R&D groups at Bellcore, Unisys, and Honeywell as well as the founding and management of three start-ups.

Sheth is working towards a vision of Computing for Human Experience which incorporates semantics-empowered Physical-Cyber-Social computing and Smart Data. His recent work focuses on Web 3.0 technologies and involves enterprise, social, sensor/IoT data and applications as well as services and cloud interoperability. In the past, he has worked extensively 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 in the areas of healthcare and life sciences (i.e., biomedicine and public health), national defense/intelligence, manufacturing science, human/social/economic development, etc. He is also intimately involved in open source activities, social entrepreneurship, technology transfer and licensing, and commercialization, as he continues to seek a real-world impact through research.

**As an educator**

Sheth’s most prized achievement is the exceptional success of his past advisees, all of whom have successfully competed against graduates from top universities. Several of his students have received prestigious international awards and fellowships and mention in numerous articles in top media. Two of them have given keynotes at significant events prior to completing their PhDs, and eleven of his eighteen former PhD advisees have over 1,000 citations each, including three with 5,000+ citations each, and one who places 5th in WWW based on 10-year impact worldwide.

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 (most recently, on Big and Smart Data Sciences), being among the first in the world in offering courses on emerging topics (Internet Programing in 2000, Enterprise Information Systems & Distributed Workflow in 1995, Global/Web Information Systems in 1995, Semantic Web in 2001, Web 3.0 in 2013, etc.), on-line teaching, international educational and research collaborations, and extensive tutorial presentations to academic and professional audiences.

**As a researcher**

His h-index of 88 (i100 = 80) and 31,000+ citations to his publications (based on Google Scholar) place him among the top 100 most influential researchers n the world for computer science (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 top authors list from Microsoft Academic Search checked on Mar. 2013:<http://j.mp/MAS-a>). He has been a PI of numerous competitive research grants, totalling around $20 million, sponsored by federal agencies (NSF, NIH, NIST, DARPA, AFRL, etc.) as well as industry (Microsoft Research, IBM Research, HP labs, etc.). Additionally, more than $5 million has been awarded to support his technology commercialization and R&D efforts. During 2010 and 2011, his own research expenditures exceeded $1 million per year (directly supporting approximately 25 students and post-docs 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 founding 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 organized and/or co-organized over 100 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, and one recently formed) which 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 the areas of healthcare 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.

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 joining the center/lab, IP creation and licensing, technology transfer and regional 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 approximately 35 employees (with a majority coming from the university) and spent $7 million in local payroll before it was acquired. He has served (and continues to serve) on technology and business advisory broads 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.

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

# Education

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| 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

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| --- | --- |
| Jan. 2007 –Present | LexisNexis Ohio Eminent Scholar, Wright State University, Dayton, OH. Executive Director, Ohio Center of Excellence on Knowledge-enabled Computing (Kno.e.sis). Professor, Computer Sc. & Engg. Department. Professor, Biomedical Sciences PhD Program (2009-present), Department of Community Health (2015-present). |
| 2001 – 2007 | Member/Professor, Faculty of Engineering, [University of Georgia](http://www.uga.edu/) |
| 1994 – 2006 | Director, [Large Scale Distributed Information Systems](file:///C:\Users\Tonya\AppData\Local\Tonya\Faculty\Sheth\) (LSDIS) Lab, Athens, GA. |
| 1998 – 2006 | Professor, [Department of Computer Science](http://www.cs.uga.edu/), [University of Georgia](http://www.uga.edu/), 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](http://www.cs.uga.edu/), [University of Georgia](http://www.uga.edu/), Athens, GA. [Biomedical & Health Science Institute](http://www.biomed.uga.edu/), Member, 2005 [Institute of Bioinformatics](http://www.bioinformatics.uga.edu/), Member, 2004. |
| May – Jun. 1993 | 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

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| Current | Advisor and/or Board Membership: ezDI, LLC; Edamam LLC; DropThought. |
| Aug. 2002 – May 2006 | Co-founder/CTO (part-time) [Semagix](http://www.semagix.com/), 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 |

# 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 (including, 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 (totals approximately $20M)

## **Federal Funds: Role Principal Investigator, unless indicated otherwise**

1. **III: Travel Fellowships for Students from U.S. Universities to Attend ISWC 2016**, NSF, $20,000, Mar. 1, 2016 - Feb. 28, 2017. PI: Amit Sheth.
2. [**PFI: AIR-TT: Market-driven Innovations and Scaling Up of Twitris – A System for Collective Social Intelligence**](http://wiki.knoesis.org/index.php/Market_Driven_Innovations_and_Scaling_up_of_Twitris), NSF, $200,000, Oct. 1, 2015 - Mar. 31, 2017. PI: Amit Sheth. Co-Investigator: John Mackay.
3. [**TWC SBE: Medium: Context-Aware Harassment Detection on Social Media**](http://wiki.knoesis.org/index.php/Context-Aware_Harassment_Detection_on_Social_Media), NSF, CNS-1513721, $925,104 + $16,000 (REU), Sept. 1, 2015 - Aug. 31, 2018. PI: Amit Sheth. Co-PIs: Valerie Shalin and T.K. Prasad.
4. [**Medical Information Decision Assistance and Support**](http://wiki.knoesis.org/index.php/MIDAS), DoD SBIR/STTR, $25,000, Jul. 6, 2015 - Mar. 30, 2016. PI: T.K. Prasad. Co-PI: Amit Sheth.
5. [**Hazards SEES: Social and Physical Sensing Enabled Decision Support for Disaster Management and Response**](http://wiki.knoesis.org/index.php/Hazard_Sees), NSF, $1,975,000 (WSU: $787,500), Jul. 1, 2015 - Jul. 31, 2019. Principal Investigators in a multi-PI grant: Srinivasan Parthasarathy (OSU) and Amit Sheth. Co-PIs: Ethan Kubatko (OSU), Densheng Liu (OSU), Valerie Shalin, and T.K. Prasad.
6. **Semantic Web-based Data Exchange and Interoperability for OEM-Supplier Collaboration**, Pratt & Whitney, $89,736, Jul. 1, 2015 - Sept. 30, 2015. PI: T.K. Prasad. Co-PI: Amit Sheth.
7. [**Cardiology Semantic Analysis System**](http://wiki.knoesis.org/index.php?title=Cardiology_Semantic_Analysis_System:_Phase_I&action=edit&redlink=1), ezDI, $150,000, Jun. 2, 2014 - Jun. 1, 2015. PI: Amit Sheth.
8. [**Trending Social Media Analysis to Monitor Cannabis and Synthetic Cannabinoid Use**](http://wiki.knoesis.org/index.php/EDrugTrends), $1,689,019, Aug. 14, 2014 - Aug. 14, 2017; Principal Investigators in a multi-PI grant: Raminta Daniulaityte and Amit Sheth; Co-Investigators: Robert Carlson, T.K. Prasad, Ramzi Nahhas, Sylvia Martins (Columbia), and Edward W. Boyer (U. Mass.).
9. **SemMat: Federated Semantic Services Platform for Materials Science and Engineering**, Air Force Research Labs, $298,028, starting Jun. 1, 2013 - Dec. 31, 2015. PI: Amit Sheth. Co-PIs: T.K. Prasad, Raghu Srinivasan.
10. [**NIDA National Early Warning System Network (iN3): An Innovative Approach**](http://wiki.knoesis.org/index.php/NIDA_National_Early_Warning_System_Network_(iN3)), $299,741, Jul. 2014 - Aug. 2015. Principal Investigators in a multi-PI grant: Robert Carlson, Amit Sheth, Ed Boyer (U. Mass).
11. **Software and Hardware Infrastructure for Energy-efficient, Large-scale Complex Language Modeling**, $492,472, Jun. 15, 2013 - Jun. 14, 2014. PI: Shaojun Wang. Co-PIs: Amit Sheth, Keke Chen, and Junjie Zhang.
12. **Towards Commercialization of Twitris – A system for collective intelligence**, National Science Foundation, $50,000, Jul. 1, 2013 - Jun. 30, 2014.
13. **Materials Database Knowledge Discovery and Data Mining**, Air Force Research Labs, $190,000. Co-Principal Investigators: T.K. Prasad, Raghu Srinivasan.
14. **T040: LVC Sensors Integration for Data Fusion in Operations and Training**, Air Force Research Lab through Ball Aerospace, $306,000, Oct. 15, 2010 - Oct. 14, 2013. PI: Amit Sheth.
15. [**EAGER: Expressive Scalable Querying over Linked Open Data**](http://knoesis.org/research/semweb/projects/ESQuILO). National Science Foundation (IIS-1143717), $125,828, Sept. 2011 - Aug. 2013. Supplement granted: $16,000. PI: Amit Sheth. Co-PI: Pascal Hitzler.
16. [**A Study of Social Web Data on Buprenorphine Abuse Using Semantic Web Technology**](http://wiki.knoesis.org/index.php/PREDOSE), Department of Health and Human Services, National Institute on Drug Abuse (NIDA), $220,812, Jul. 2011 - Jun. 2014. Principal Investigators in a multi-PI grant: Raminta Daniulaityte and Amit Sheth. Co-PIs: Robert Carlson and Russel Falck.
17. **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), $149,276.30, Jun. 2011 - Jan. 2013. PI: Amit Sheth. Co-PI: T.K. Prasad.
18. [**Semantics and Services Enabled Problem Solving Environment for Trypanosoma cruzi**](http://knoesis.org/research/semsci/application_domain/sem_life_sci/tcruzi_pse/), National Heart, Lung and Blood Institute, $1,515,656, May 2008 - Mar. 2013. PI: Amit Sheth. Co-PIs: Rick Tarleton (UGA), Mark Musen (Stanford), Natasha Noy (Stanford), Prashant Doshi (UGA).
19. [**SoCS: Collaborative Research: Social Media Enhanced Organizational Sensemaking in Emergency Response**](http://knoesis.org/projects/socs), National Science Foundation, $480,000, Sept. 2011 - Aug. 2015. REU Supplement: $16,000. Principal Investigators in a multi-PI grant: Amit Sheth and Srinivasan Parthasarathy (OSU). Co-PIs: Valerie Shalin and John Flach.
20. **ARRA: Semantics and Services Enabled Problem Solving Environment for Trypanosoma cruzi**, NHLBI-DHHS, $182,786. Jul. 2009 - Jun. 2011. Principal Investigator: Priti Parikh.
21. Undisclosed Sponsor, [**Trusted Semantic Sensor Network—Phase I**](http://knoesis.org/research/semsci/application_domain/sem_sensor/), $28,890, Jul. 2010 - Aug. 2011.
22. [**Ontology and Semantic-Aided Human Cognition Knowledge Discovery**](http://knoesis.org/research/semsci/application_domain/hpco/), Air Force Research Lab's Human Effectiveness Directorate, WPAFB, $400,000, Jun. 1, 2008 - Mar. 31, 2009.
23. **Information Operations/Cyber Exploitation Research (ICER)**, Air Force Research Lab - Sensor Directorate (via Prime: Woolpert), $148,402, Jul. 2010 - Dec. 2010.
24. [**Spatio-Temporal-Thematic Queries of Semantic Web Data: A Study of Expressivity and Efficiency**](http://knoesis.org/research/semweb/projects/stt/), National Science Foundation, $146,952, Aug. 2008 - Aug. 2010. PI: Amit Sheth. Co-PI: T.K. Prasad. REU supplement: $22,960.
25. [**Trusted Semantic Sensor Network**](http://wiki.knoesis.org/index.php/Trust), Air Force Research Lab, $313,093.50, Feb. 2009 - Aug. 2011. PI: Amit Sheth. Co-PI: T.K. Prasad.
26. **Education Partnership Agreement for joint work on Distributed Systems for Psychological Modeling.**711th Human Performance Wing, Air Force Research Laboratory, $61,000.
27. Undisclosed Sponsor, [**Trusted Semantic Sensor Web**](http://knoesis.org/research/semsci/application_domain/sem_sensor/). $126,000, Jul. 2008 - Mar. 2009. PI: Amit Sheth.
28. [**Human Performance Ontology**](http://knoesis.org/research/semsci/application_domain/human_perf_onto/) funded by The Air Force Research Lab's Human Effectiveness Directorate, WPAFB, $400,000, Jun. 2008 - Mar. 2009. PI. Amit Sheth. Co-PI: T.K. Prasad and Valerie Cross (Miami University).
29. [**AFRL/DAGSI Ohio Student-Faculty Research Fellowship**](http://knoesis.org/research/semsci/application_domain/sem_sensor/) (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, Jun. 1, 2008 - May 31, 2009.
30. [**Bioinformatics of Glycan Expression**](http://lsdis.cs.uga.edu/Projects/Glycomics/) (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), Jul. 1, 2003 - Jun. 30, 2008. (Partial funds transferred to Wright State University upon move.)
31. [**SemGrid: Semantic Discovery on Adaptive Services Grid**](http://lsdis.cs.uga.edu/projects/semgrid/), National Science Foundation (IIS 0545243), Oct. 15, 2005 - Dec. 31, 2007, $100,000.PI: Amit Sheth. UGA Co-PIs: Arpinar, Kochut, and Miller.
32. [**SemDis: Discovering Complex Relationships in Semantic Web**](http://lsdis.cs.uga.edu/Projects/SemDis/), PI of joint UGA-UMBC project: Amit Sheth. UGA Co-PIs: Arpinar, Kochut, and Miller. UMBC Co-PIs: Joshi, Finin, and 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), Jan. 2007 - Dec. 2009. REU Supplement: $15,000.
33. [**Sensor Data Management**](http://knoesis.org/research/semsci/application_domain/sem_sensor/projects/savig/), Principal Investigator of subcontract (subcontract to daytaOhio in Sensor-Aided Vigilance (SAVig), funded by the Air Force Research Laboratory), $32,000, Apr. 2007 - Aug. 2007.
34. **An Ontological Approach to Financial Analysis & Monitoring**, PI: Amit Sheth. ARDA-funded project (subcontract to CTA, Inc.), $325,000, Apr. 2005 - Sept. 2006.
35. **Semantic Association Identification and Knowledge Discovery for National Security Applications**, National Science Foundation, CISE-ITR-0219649. PI: Amit Sheth. Co-PIs: I.B. Arpinar and K. Kochut. $200,000. REU Supplement for 2004, $12,000, Jul. 1, 2002 - Jun. 30, 2005.
36. **Ontology, Metadata and Semantic Association Support for Semantic Agent Based Document Protection**, PI: Amit Sheth. ARDA-funded project (subcontract to CTA, Inc.), $38,716, Nov. 2004 - February 2005.
37. **The Alexandria Digital Earth Modeling System** (Semantic Interoperability and Collaboration), UGA subcontract to UCSB, National Science Foundation-IIS-9817432, $600,000 in federal funds, plus $25,000 in UGARF equipment matching, Sept. 1999 - Aug. 2004. PI: Amit Sheth. Co-PI: K. Kochut,
38. **System-Level Techniques for Energy Aware Computing** (focus area: Enabling Personal Networked and Home Computing Applications with Metadata, $27,150, Jul. 1, 2003 - Jun. 30, 2004. PI: D. Lowenthal. Co-PIs: Bhandarkar, Sheth, Li, and Waterson.
39. **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, Apr. 1, 2002 - Mar. 31, 2003.
40. **Extending METEOR with workflow reuse, adaptation, and collaboration**, Principal Investigator, awarded by Naval Research Laboratory and ITT, $200,000, Jan. 1, 2000 - Sept. 30, 2000.
41. **Workflow Management for Advanced DoD Applications**, Principal Investigator, awarded by Naval Research Lab/Department of Navy-N00173-98-2-L005 (Co-Principal Investigators: K. Kochut, J. Miller), $315,542 in federal funds, plus $15,000 in UGARF equipment matching funds, Jul. 1, 1998 - Dec. 31, 1999.
42. **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-Principal Investigators: 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), Mar. 1995 - Aug. 1996.
43. **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-Principal Investigators for first year: K. Kochut, J. Miller, Co-Principal Investigators 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, Jun. 1996 - May 1999.
44. **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, Apr. 15, 1995 - Aug. 30, 1997.
45. **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 $6,000 donation by the University of Georgia Research Foundation, Sept. 1995 - Sept. 1996.
46. **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), Dec. 1996 - Aug. 1997.
47. Principal Investigator of research grants/contracts of over $4 million dollars from DARPA, Army Research Labs and other sources before joining UGA.

## **Industry/Consortia/VC Funds**

1. **Homeland Security Workshop**, Principle Investigator (with Co-Principal Investigators E. Lynn Usery, I. Budak Arpinar, Xiaobai Yao), UCGIS, $15,000, Aug. 2003–Jul. 2004.
2. 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).
3. **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, Jan.–Dec. 1998.

## **State and University Funds: Role of Principal Investigator, unless indicated otherwise**

1. [**Westwood Partnership to Prevent Juvenile Repeat Violent Offenders**](http://wiki.knoesis.org/index.php/Project_Safe_Neighborhood), Ohio Office of Criminal Justice Services, $140,000, Jan. 1, 2015 - Dec. 31, 2016. PI: Amit Sheth. Co-PIs: Derek Doran and Jack Dustin.
2. **kHealth enabled health Monitoring, Epidemiology & Public Health Research**, Office of Vice President for Research, $40,000, Jun. 17, 2003-Dec. 31, 2014.**Twitris- a system for collective intelligence**, National Science Foundation, $30,000, $50,000, Jul. 2013.
3. **Advanced Data Management Tuition,** Wright State University Graduate School, $126,000, Jan. 20007-Jun. 30, 2013.**Center of Excellence Kno.e.sis Operating Award**, Wright State University, $330,000, Jul. 2010-Jun. 2013.
4. **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, Apr. 2, 2011-Dec. 31, 2011.**Education Partnership Agreement between Wright State and Wright Patterson Air Force Base**, 711th Human Performance Wing, Air Force Research Laboratory $61,000.
5. **Advanced Data Management Resource,** Ohio’s Research Challenge, $210,000, Jun. 1, 2006-Jun. 30, 2010.
6. **Cloud Computing Collaboratory**, Wright State University, $48,000, Co-Principal Investigators: J. Gallagher, K. Chen, Y. Pei, M. Raymer, TK Prasad, B. Wang, M. Rizki, S. Wang, P. Mateti, M. Liu**Major Collaboration/Infrastructure Grant**. “Advanced Data Management Resource for Biomedical Research.”  Principal Investigator (WSU Co-Principal Investigators: 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–Jun. 30, 2008.
7. **Faculty Research Commercialization Program**, awarded by the Advanced Technology Development Center in conjunction with Georgia Research Alliance, $50,000, Jul. 1, 1998–Jun. 30, 1998.
8. **UGA Office of Instructional Development (OID)**, Co-Principal Investigators: D. Everett, J. Miller, K. Kochut, J. Smith, R. Robinson, and H. Arabnia,  “Mobile Multimedia Instruction Environment.” $8,500, Apr. 1, 1996-Mar. 30, 1997.
9. **Course Approval Process Automation (CAPA)**, Principal Investigator, funded by the Vice President for Academic Affairs, University of Georgia, $150,065 (budget) Jul. 1, 1996-Jun. 30, 1997.
10. **CareWeb for the Family Connection Program**, Principal Investigator, cooperative agreement funded by Medical College of Georgia, $30,000,  May 1997-Apr. 1998.
11. **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, Jul. 1997–Jul. 1998.

## **Competitive Awards and Industry Cash Gifts Received**

1. **Cardiology Semantic Analysis System**, ezdataintelligence (ezDI) LLC, $100,000, ($25,000 in 2011, renewed: 2012, 2013, and 2014 at the same level.
2. **Janya, Inc.**,$25,150. “Enhancing Information Extraction with Linked Open Data.” Apr., 2011.
3. **Department of Community Health**,$30,000. “A Study of Social Web Data on Oxycontin Abuse Using Semantic Web Technology.” Jan., 2011.
4. **Microsoft**,$75,000 unrestricted gift, Jul., 2010.
5. **Hewlett Packard**,$45,000 for “Model Generation and Model Extension for Information and Knowledge Management.” Competitive Research Excellence Award, Jun., 2010.
6. **Competitive Award, Microsoft Research**, $60,000 for “Chatter, Intent, Good Karma, and Contextual Advertisements in Social Networks.” Feb. 2008.
7. **Competitive Award, IBM UIMA Innovation Award**, $23,000 for “UIMA-based Infrastructure for Summarizing Casual, Unstructured Text.” Nov. 2007.
8. **Gift from HP Research, $50,000**, for research in unstructured text extraction, starting Jan. 2008.
9. **Gift/donation**, Athens Heart Center, $32,000, May 2005.
10. **Competitive Award**, IBM Eclipse Innovation Grant 2005, $27,000, Jan. 2005.
11. **Gift/donation**, 2004 IBM Faculty Award, $30,000, 2004.
12. **Competitive Award**, IBM Eclipse Innovation Award 2004, $28,000, Jan. 2004.
13. **Gift** from the Boeing Company as a LSDIS industry sponsor, $55,000 (annual gifts), Dec. 1996, Jan. 1998, Jan. 2001.
14. **Gift** from Microelectronic and Computer Technology Corporation (MCC) as a LSDIS industry sponsor, $20,000, Jun. 1997.
15. Gift from Hewlett-Packard Labs as a LSDIS industry affiliate, $12,500 (annual gifts for 1995, ’96, ’97, ’98).
16. **Gift** from LG Electronics Research Center of America as a LSDIS industry sponsor, $25,000, Feb. 1998.

## **Industry Donations Received (totals more than $650,000)**

1. Microsoft Windows Azure Cloud-free access for the Kno.e.sis Center, Mar. 2011.
2. Semagix Freedom, $255,000, 2005.
3. Microsoft Research, donation of all requested software and training for Computer Science department (to support teaching) and LSDIS lab (for use in research), 1999.
4. Informix Universal Server and other software (first receipt of grant program), Informix, $120,000, since Apr. 1997. Renewed in 1998 and 1999.
5. Also from PictureTel live 200P and Developer’s Tool kit, donated by PictureTel Corp., $6,775, Jun. 1996, Virage’s Visual Information Retrieval System (value not assigned) Mar. 1997, MARGI’s MPEG-to-GO (value not assigned) Jun. 1997, POET (Dec. 1998), Object Design Inc. (Dec. 1998).
6. I–Kinetics DataBroker and Open JDBC, $19,396, Sept. 1997.
7. Persistence, donated by Persistence Software Inc. $61,275, Jul. 1995. Also, May 1997.
8. ORBeline 2.0 and BlackWidow licenses (6), donated by PostModern Computing (first grant recipient of CORBA2.0 product), $83,700, Mar. 1996.
9. ORBIX and related products, donated by IONA Technologies, $45,295, Oct. 1996. Again in 1998 (value undetermined).
10. Illustra Server licenses (5) and several databases, awarded through a competitive grant program, Illustra Information Technology, Inc., $17,373.50, Aug. 22, 1995.

# Speeches and Talks

## **Keynote and Plenary Invited Talks:** International Conferences/Workshops and Significant National/International Meetings

1. "Semantics-empowered Smart City applications: today and tomorrow." The 6th Workshop on Semantics for Smarter Cities ([S4SC 2015](http://kat.ee.surrey.ac.uk/wssc/index.html)) at ISWC 2015, Oct. 12, 2015, Bethlehem, PA.
2. “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, Oct. 28, 2014 ([Abstract](http://cci.drexel.edu/bigdata/bigdata2014/keynotespeech.htm), [Slides](http://www.slideshare.net/apsheth/smart-data-how-you-and-i-will-exploit-big-data-for-personalized-digital-health-and-many-other-activities)).
3. “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.
4. “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, Jul. 21, 2014 ([Abstract](http://www.world-academy-of-science.org/worldcomp14/ws/keynotes/keynote_sheth), [Video](http://youtu.be/2991W7OBLqU), [Slides](http://www.slideshare.net/apsheth/smart-data-for-you-and-me-personalized-and-actionable-physical-cyber-social-big-data), [Pictures](https://plus.google.com/photos/104549534994875594081/albums/6064321462159859217?authkey=CLTO9er6xq3aygE)).
5. “Transforming Big Data into Smart Data: Deriving Value via Harnessing Volume, Variety, and Velocity Using Semantic Techniques and Technologies.” Keynote at *30th IEEE International Conference on Data Engineering*, Chicago, Illinois, Apr. 2, 2014 ([Announcement](http://ieee-icde2014.eecs.northwestern.edu/keynotes.html), [Presentation](http://wiki.knoesis.org/index.php/Smart_Data)).
6. “[Transforming Big Data into Smart Data: Deriving Value via harnessing Volume, Variety and Velocity using semantics and Semantic Web](http://www.slideshare.net/apsheth/big-data-to-smart-data-keynote).” Keynote at *SEBD2013: 21st Italian Symposium on Advanced Database Systems*. Jun. 30 - Jul. 3 2013, Roccella Jonica, Italy.
7. “[Physical Cyber Social Computing: An early 21st century approach to Computing for Human Experience](http://www.slideshare.net/apsheth/physical-cyber-social-computing-an-early-21st-century-approach-to-computing-for-human-experience).” Keynote at *WiMS2013: International Conference on Web Intelligence, Mining and Semantics*. Jun. 12-14, 2013, Madrid, Spain.
8. “[Computing for Human Experience: Semantics empowered Cyber-Physical, Social and Ubiquitous Computing beyond the Web](http://www.slideshare.net/knoesis/computing-for-human-experience-v3).” Keynote at [*OnTheMove Federated Conferences & Workshops (OTM 2011)*](http://www.onthemove-conferences.org/). Crete, Greece, Oct. 17-21, 2011.
9. [“Spatial Semantics for Better Interoperability and Analysis: Challenges and Experiences in Building Semantically Rich Applications in Web 3.0.”](http://knoesis.org/library/resource.php?id=903) Keynote at 3rd Annual Spatial Ontology Community of Practice Workshop (SoCoP 2010), in conjunction with USGSReston, VA, Dec. 3, 2010.
10. “Semantic Web, Powering Intelligent Web Applications.” Luncheon Keynote at [*Technology First’s Technology Landscape 2013*](http://www.technologyfirst.org/events/conferences/technology-landscape.html). May 16, 2010, Dayton, Ohio
11. “[Computing for Human Experience: Semantics empowered Sensors, Services, and Social Computing on Ubiquitous Web](http://www.icdim.org/icdim2009/keynote.php).” Keynote at *4th International Conference on Digital Information Management (*[*ICDIM 2009*](http://www.icdim.org/keynote.php)*)*. Ann Arbor, Michigan, Nov. 1-4, 2009.
12. “[Computing for Human Experience: Semantics empowered Sensors, Services, and Social Computing on ubiquitous Web](http://info.ee.surrey.ac.uk/CCSR/EuroSSC/2009/program.html).” Keynote at *4th European Conference on Smart Sensing and Context (*[*EuroSSC 2009*](http://info.ee.surrey.ac.uk/CCSR/EuroSSC/2009/program.html)*)*. Guildford, United Kingdom, Sept. 16-18, 2009.
13. “[Extending SPARQL to Support Spatially and Temporally Related Information](http://knoesis.wright.edu/library/resource.php?id=00708).” Keynote at *Semantic Technology Conference*. San Jose, CA, Jun. 16, 2009.
14. “[Computing for Human Experience: Sensing, Perception, Semantics, Social Computing, Web 3.0, and beyond](http://knoesis.org/library/resource.html?id=00703).” Keynote at *20th Midwest Artificial Intelligence and Cognitive Science Conference (*[*MAICS 2009*](http://www.ipfw.edu/maics2009/)*)*. Fort Wayne, Indiana, Apr. 18-19, 2009.
15. “[Computing for Human Experience: Sensors, Perception, Semantics, Web N.0, and Beyond](http://knoesis.org/library/resource.html?id=00353).” Keynote at *3rd Asian Semantic Web Conference ([ASWC 2008](http://aswc2008.ait.ac.th/))*. Bangkok, Thailand, Feb. 2-5, 2009.
16. “[Relationship Web: Trailblazing, Analytics and Computing for Human Experience](http://knoesis.org/library/resource.html?id=00344).” Keynote at *27th International Conference on Conceptual Modeling (*[*ER 2008*](http://www.upc.edu/ER2008/)*)*. Barcelona, Spain, Oct. 20-23, 2008.
17. “[Semantics to Empower Services Science: Using Semantics at Middleware, Web Services and Business Levels](http://knoesis.org/library/resource.html?id=00053).” *CSIRO*. Canberra, Australia, Aug. 11, 2008.
18. “[Empowering Translational Research using Semantic Web Technologies](http://knoesis.org/library/resource.html?id=00307).” Plenary invited talk at the *Ohio Collaborative Conference on Bioinformatics (OCCBIO)*. Toledo, OH Jun. 2-4, 2008.
19. “[Semantic Web for Health Care and Biomedical Informatics](http://knoesis.org/library/resource.html?id=00212).” Keynote at [*NSF Biomedical Informatics Workshop: Expanding Secondary Use of Health Data*](http://www.biomedweb.info/2007/). Dec. 4–5, 2007.
20. “[Semantic Web techniques empower perception and comprehension in Cyber Situational Awareness?](http://knoesis.org/library/id=00172)” Invited talk at the [*ARO Cyber Situational Awareness Workshop*](http://ist.psu.edu/s2/ARO-SA/). Fairfax, VA, Nov. 14–15, 2007.
21. “[Realizing the Relationship Web: Morphing information access on the Web from today's document- and entity-centric paradigm to a relationship-centric paradigm](http://knoesis.org/library/resource.html?id=00156).” Keynote at *ACM Multimedia 2007 International Workshop: The Many Faces of Multimedia Semantics*. Augsburg, Germany, Sept. 28, 2007.
22. “[Semantics to Empower Services Science: Using Semantics at Middleware, Web Services and Business Levels](http://knoesis.org/library/resource.html?id=00053).” Keynote at *9th International Conference on Enterprise Information Systems (*[*ICEIS2007*](http://www.iceis.org/iceis2007/keynotes.htm)*)*. Funchal, Portugal, Jun. 12–16, 2007.
23. “[Driving Deep Semantics in Middleware and Networks: What, why and how?](http://knoesis.org/library/id=00011)” Keynote at [*Semantic Sensor Networks Workshop*](http://www.ict.csiro.au/ssn06/)*, 5th International Semantic Web Conference (*[*ISWC-2006*](http://iswc2006.semanticweb.org/)*)*. Athens, GA, Nov. 6, 2006.
24. “[{Ontology: Resource} x {Matching : Mapping} x {Schema : Instance} :: Components of the same challenge](http://knoesis.org/library/id=00002).” Keynote at *International Workshop on Ontology Matching (*[*OM-2006*](http://om2006.ontologymatching.org/)*), 5th International Semantic Web Conference (ISWC-2006)*. Athens, GA, Nov. 5, 2006.
25. “[Semantics to energize the full Services Spectrum: Ontological approach to better exploit services at technical and business levels](http://knoesis.org/library/id=00054).” Keynote Address at 2nd *Biennial Beta Conference, 2006: Management of Service Operations*. Eindhoven, Netherlands, Sept. 14–15, 2006.
26. “[Semantics to energize the full Services Spectrum: Ontological approach to better exploit services at technical and business levels](http://lsdis.cs.uga.edu/library/presentations/).” Invited Talk for inauguration invitational event for Research School on Service-Oriented Systems Engineering, Hasso-Plattner-Institute. Potsdam, Germany, Jun. 22, 2006.
27. “[Semantic Web applications in Financial Industry, Government, Health Care and Life Sciences](http://knoesis.org/library/id=00037),” Keynote Address *at AAAI Spring Symposium on* [*Semantic Web Meets eGovenment*](http://www.imu.iccs.gr/sweg/index_files/Program.html). Stanford University, Palo Alto, CA, Mar. 28, 2006.
28. “[Semantics Enabled Industrial and Scientific Applications: Research, Technology and Deployed Applications](http://knoesis.wright.edu/library/resource.php?id=00048).” Keynote Address at [*1st Online Metadata and Semantic Research Conference*](http://www.metadata-semantics.org/). Nov. 21–30, 2005.
29. “[Semantics for Scientific Experiments and the Web: the implicit, the formal and the powerful](http://knoesis.org/library/id=00049).” Featured talk, [*BISCSE 2005*](http://www-bisc.eecs.berkeley.edu/BISCSE2005/)*: Forging New Frontiers*. Berkeley CA, Nov. 2–6, 2005.
30. “[Semantic Web Applications in Industry: Examples in Risk & Compliance](http://lsdis.cs.uga.edu/library/presentations/).” Part I. “[Semantic Web & Semantic Web Services: Applications in Health Care and Scientific Research](http://lsdis.cs.uga.edu/library/presentations/).” Part II. Keynote at *IFIP Working Conference on Industrial Applications of Semantic Web (*[*IASW-2005*](http://www.cs.jyu.fi/ai/OntoGroup/IASW-2005/confProg.html)*)*. Jyväskylä, Finland, Aug. 25–27, 2005.
31. “[Web Services to Semantic Web Processes: Investigating Synergy between Practice and Research](http://knoesis.org/library/id=00072).” Keynote at *1st European Young Researchers Workshop on ServiceOriented Computing*. Leicester, UK, Apr. 21, 2005 ([Abstract](http://www.cse.dmu.ac.uk/YRSOC/YRSOC-keynote.html), [Presentation](http://lsdis.cs.uga.edu/library/download/YR-SOC-Sheth-keynote.ppt)).
32. “[Semantics Powered Bioinformatics: Semantic Search, Integration, Processes and Analytics](http://knoesis.wright.edu/library/resource.php?id=00052),” Plenary Invited Talk at *2003 BISC FLINT-CIBI International Joint Workshop on Soft Computing for Internet and Bioinformatics*. Berkeley, CA, Dec. 16, 2003.
33. “[What can Semantics do for Bioinformatics](http://lsdis.cs.uga.edu/library/presentations/)?” Keynote at *Russian Conference on Digital Libraries (RCDL 2003)*, Saint Petersburg, Russia, Oct. 29, 2003.
34. “[Semantics-Powered Bioinformatics: What, Why and How of Semantic Search, Integration, Processes and Analytics](http://lsdis.cs.uga.edu/library/presentations/).” Invited Talk at *Semantic Web Technologies for Science and Engineering Workshop*. Sanibel Island, FL, Oct. 20, 2003.
35. “[Semantic Web in Action (Also Known as Ontology-driven Information Search, Integration and Analysis](http://knoesis.wright.edu/library/resource.php?id=00039)).” Keynote Address at *Net Object Days 2003* and *MATES03*. Erfurt, Germany, Sept. 23, 2003.
36. “[From Semantic Search to Analytics and Discovery on Heterogeneous Content: Changing focus from Documents and Entities to Relationships](http://www.cs.uic.edu/~ifc/SWDB/keynote-as.html).” Keynote at *1st International Workshop on* [*Semantic Web and Databases*](http://swdb.semanticweb.org/), Sept. 8, 2003.
37. “[Semantic Web Process Lifecycle: Role of Semantics in Annotation, Discovery, Composition and Orchestration](http://knoesis.org/library/id=00040).”  Invited Talk, [*WWW 2003 Workshop on E-Services and the Semantic Web*](http://www.ics.forth.gr/isl/essw2003/). Budapest, Hungary, May 20, 2003.
38. “[Ontology Driven Information Systems in Action (Capturing and Applying Existing Knowledge to Semantic Applications)](http://knoesis.org/library/resource.html?id=00025).” Invited Talk, [*Sharing the Knowledge- International CIDOC CRM Symposium*](http://cidoc.ics.forth.gr/symposium_program.htm). Washington, DC, Mar. 26–27, 2003.
39. “[Relationships at the Heart of Semantic Web: Modeling, Discovering, Validating and Exploiting Complex Semantic Relationship](http://www.sofsem.cz/sofsem02/keynote.html).” Keynote at *29th Annual Conference on Current Trends in Theory and Practice of Informatics (SOFSEM 2002)*. Czech Republic, Nov. 25, 2002.
40. “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, Jul. 14, 2002.
41. “Content Management, Metadata, and Semantic Web.” Inaugural Keynote at [*NetObjectDAYS*](http://www.netobjectdays.org/node01/de/Conf/publish/print.html). Erfurt, Germany, Sept. 11, 2001.
42. “[Semantic Web and Information Brokering: Opportunities, Early Commercialization, and Challenges](http://lsdis.cs.uga.edu/lib/download/122-SemWeb-Keynote-Abstract.htm).” Keynote at [*Workshop on Semantic Web: Models, Architectures and Management*](http://www.ics.forth.gr/proj/isst/SemWeb/program.html). Lisbon, Portugal, Sept. 21, 2000
43. “Information Brokering in Digital Media.” Keynote at *3rd International Workshop on Cooperative Information Agents CIA-99*. Uppsala, Sweden, Jul. 31–Aug. 2, 1999.
44. “[Processes in the Networked Economy: Portals, Vortex and Dynamic Trading Processes](http://lsdis.cs.uga.edu/library/presentations/).” Keynote at *SAPBM Workshop at the 11th Conference on Advanced Information Systems Engineering*. Heidelberg, Germany Jun. 14-18, 1999
45. “Semantic Interoperability and Information Brokering in Global Information Systems.” Keynote at [*3rd IEEE Metadata Conference*](http://www.llnl.gov/liv_comp/metadata/md99/program.html). Bethesda, MD, Apr. 6–7, 1999.
46. “Workflow Process Management and Enterprise Application Integration in Healthcare.”  Keynote at *IEEE Workshop on Enterprise Networking and Computing in Healthcare Industry (Healthcom 99)*. Sydney Australia, Jan. 11, 1999.
47. “Real-world Relevant Research Challenges in Workflow.” Keynote at EDBT Workshop on Workflow Management Systems, Valencia, Spain, Mar. 27–28, 1998.
48. “Pragmatics Driven Research Issues in Data and Process Integrity in Enterprises.” Keynote at *IFIP WG 11.5 Conference on Integrity and Control in Information Systems*. Zurich, Switzerland, Dec. 4–5, 1997.
49. “[Semantic Interoperability in Infocosm: Moving Beyond Infrastructural and Data Interoperability in Federated Information Systems](http://www.ncgia.ucsb.edu/conf/interop97/program/).” Keynote at *International Conference on Interoperating Geographical Information Systems (Interop '97)*. Santa Barbara, CA, Dec. 3, 1997.
50. “From Contemporary Workflow Process Automation to Adaptive and Dynamic Work Activity Coordination and Collaboration.” Keynote at *Workshop on Workflows in Scientific and Engineering Applications*. Toulouse, France, Sept. 1997.
51. “Schemata for Interoperable Database Systems” and “So Far (Schematically) yet So Near (Semantically).” Keynote at *IFIP DS-5 Conference on Semantics of Interoperable Database Systems*. Lorne, Australia, Nov. 1992.

## **Conference and Workshop Invited Talks**

1. Sheth, Amit. "Big Data and Smart Cities." Dunedin City Council. Dunedin, New Zealand. Apr. 29, 2015.
2. Sheth, Amit. "[Transforming Big Data into Smart Data: Deriving Value via Harnessing Volume, Variety & Velocity Using Semantics and Semantic Web](http://reflect.otago.ac.nz/csis-seminars/150327-Amit_Sheth.html)."Computer & Information Science Seminars. University of Otago. Dunedin, New Zealand. Mar. 27, 2015.
3. Sheth, Amit. "[Citizen Sensor Data Mining, Social Media Analytics and Applications](http://www.sutd.edu.sg/eventdetails.aspx?evt_sid=20150227GtGraEuZJty6)." iTrust Seminar Series: Transforming Big Data into Smart Data. Singapore University of Technology and Design. Mar. 3, 2015.
4. “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 – Jun. 01, 2012.
5. “Citizen Sensing Opportunities and Challenges in Mining Social Signals and Perceptions.” [2011 Microsoft Research Faculty Summit](http://research.microsoft.com/en-us/events/fs2011/agenda_expanded.aspx). Redmond, WA, Jul. 18-20, 2011. ([PPT](http://knoesis.org/library/download/Citizen_Sensing-MSR-FacSummit.pptx), [PDF](http://research.microsoft.com/en-us/events/fs2011/sheth_citizen_sensing.pdf)).
6. A. Sheth, C. Henson. “Active Perception Over Machine and Citizen Sensing.” [*2011 Semantic Technology Conference (SemTech)*.](http://semtech2011.semanticweb.com/) San Francisco, CA, Jun. 7, 2011.
7. “[How To Make Linked Data More than Data](http://www.slideshare.net/knoesis/how-to-make-linked-data-more-than-data).” *2010 Semantic Technology Conference (SemTech2010)*. San Francisco, CA, Jun. 21-25, 2010.
8. “Semantics empowered Understanding, Analysis and Mining of Nontraditional and Unstructured Data.” *AFRL Data Mining Seminar*, Aug. 2009.
9. “[Monetizing User Activity on Social Networks-Challenges and Experiences](http://knoesis.wright.edu/library/resource.php?id=00710),” with Meenakshi Nagarajan, Kamal Baid, and Shaojun Wang, *Beyond Search-Semantic Computing and Internet Economics 2009 Workshop*. Redmond, Washington, Jun. 10, 2009.
10. [“Challenges of Creating a Knowledge-based Society: Education & Research for India & Gujarat](http://knoesis.wright.edu/library/resource.php?id=00337).” Invited talk at *World Gujarat Conference: Chaalo Gujarat*, Aug. 30, 2008.
11. “Empowering Translational Research using Semantic Web Technologies.” Ohio Collaborative Conference on Bioinformatics (OCCBIO), Toledo, OH, Jun. 2-4, 2008.
12. “[Semantic Sensor Web](http://knoesis.wright.edu/library/resource.php?id=00302),” with Cory Henson. *Semantic Technology Conference*. San Jose, CA, May 18-22, 2008.
13. “[SA-REST: Using Semantics to Empower RESTful Services and Smashups with Better Interoperability and Mediation](http://knoesis.wright.edu/library/resource.php?id=00304),” with Karthik Gomadam, Semantic Technology Conference, San Jose, CA, May 18–22, 2008.
14. “[Dynamic and Agile SOA using SAWSDL](http://knoesis.wright.edu/library/resource.php?id=00305),” with Karthik Gomadam, and Kunal Verma, Semantic Technology Conference, San Jose, CA, May 18, 2008.
15. “Semantic Sensor Web.”  *Sensor Web Enablement (SWE) Working Group of the Open Geospatial Consortium (*[*OGC*](http://www.opengeospatial.org/event/0803tcagenda)*)*, St. Louis, MO, Mar. 26, 2008.
16. “[Semantic Sensor Web](http://knoesis.wright.edu/library/resource.php?id=00219).” *Special SICoP Conference*, *Building Semantic Interoperability Solutions for Information Sharing and Integration*. Falls Church, VA, Feb. 5, 2008.
17. “[Strategic Importance of Higher Education and Research in Positioning Gujarat for Global Competitiveness](http://knoesis.wright.edu/library/resource.php?id=00215).” Plenary Invited Talk, *Global Gujarat & Its Diaspora*. Hemchandracharya North Gujarat University, Patan, India, Jan. 17–19, 2008.
18. “[Trailblazing, Complex Hypothesis Evaluation, Abductive Inference and Semantic Web— exploring possible synergy](http://knoesis.wright.edu/library/resource.php?id=00161),”[ARO Workshop on Abductive Reasoning: Evidence and Intelligent Systems,](http://orsp.rutgers.edu/aro/default.htm) Adelphi, MD, Aug. 23–24, 2007.
19. “[Relationship Web: Realizing the Memex vision with the help of Semantic Web](http://knoesis.wright.edu/library/resource.php?id=00076).” *SemGrail 2007*. Redmond, WA, Jun. 21–22, 2007.
20. “[Semantic Annotations for WSDL](http://knoesis.wright.edu/library/resource.php?id=00077).” with Jacek Kopecky (DERI Innsbruck), *W3C Track at the 16th World Wide Web Conference (WWW2007)*. Banff, Canada, May 10, 2007.
21. “Semantic empowerment of Life Science Applications.” [*Microsoft eScience Workshop*](http://www.mscs06.net/agenda.asp#3B), Cincinnati Children Hospital & Medical Center, Oct. 14, 2006.
22. “[Semantic empowerment of Health Care and Life Science Applications](http://www2006.org/programme/item.php?id=w11).” *W3C track at the 15th International World Wide Web Conference (WWW2006)*. Edinburgh, Scotland, May 26, 2006. (P[resentation](http://www.w3.org/2006/Talks/0526-www-SW-HCLS.pdf).)
23. “Semantic Web applications in Financial Industry, Government, Health Care and Life Sciences.” *Taxonomies and Semantic Technologies for S&T Analysis Conference*, The MITRE Corporation, Mar. 17, 2006.
24. “Active Semantic Electronic Patient Records*.” Semantic Technology Conference*. San Jose, CA, Mar. 7, 2006.
25. “Autonomic Web Process,” vision paper presented at the *3rd International Conference on Service Oriented Computing*. Amsterdam, Netherlands, Dec. 13, 2005.
26. “Semantic Technology in the Real World: Experiences and Lessons based on Enterprise Semantic Applications.” Semantic Technology Conference 2005, San Francisco, CA, Mar. 8, 2005.
27. “[Semantic Web Technology in Support of Bioinformatics for Glycan Expression](http://lsdis.cs.uga.edu/Projects/Glycomics/).” *W3C Workshop on Semantic Web for Life Sciences*. Cambridge, MA, Oct. 28, 2004.
28. “From Semantic Search & Integration to Analytics.” *KMWorld 2004*, Santa Clara, CA, Oct. 26–28, 2004.
29. “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, Sept. 21, 2004.
30. “Semantic Web Technology Ontology Testbed.” *Ontology in Action Workshop*. Banff, Canada, Jun. 21, 2004.
31. “Semantic Visualization: Interfaces for exploring and exploiting ontology, knowledgebase, heterogeneous content and complex relationships.” *NASA Virtual Iron Bird Workshop*, Monterey, CA, Apr. 2, 2004.
32. “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, Jun. 12–13, 2003.
33. “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*](http://cimic.rutgers.edu/semantic/presentations.html), Rutgers University, Newark, NJ, Oct. 24, 2002.
34. “Process Composition: Quality of Service Specification Semantics, and Adaptation.”  Invited Talk, *EI3-IC workshop on Interoperability of Business Processes and Enterprise Models*, Gaithersburg, MD, Feb. 6–8, 2002.
35. “Semantic Content Annotation and Applications: Semantic Web Now and Challenges Ahead.” Invited talk, *2001 IRC International Conference on Internet Information Retrieval*. Seoul, South Korea, Oct. 29, 2001.
36. “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*](http://bisc7.eecs.berkeley.edu/BISC/flint2001/glance.htm). Berkeley, CA, Aug. 16, 2001.
37. “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](http://www.cs.iastate.edu/~honavar/ijcaiworkshopprogram.html). Seattle, WA, Aug. 6, 2001.
38. “[Workflow and Process Automation in Information Systems: A Proposal for a Multidisciplinary Research Agenda and Follow-up](http://deslab.mit.edu/DesignLab/dicpm/presentations.html#sheth).” Invited Talk, NSF Invitational Workshop on Distributed Information, Computation, and Process Management for Scientific and Engineering Environments. Virginia, May 15–16, 1998.
39. “From Process Modeling to Workflow Automation.” Invited Talk, *National Institute of Standards and Technology sponsored Process Information Technology Workshop*. Gaithersburg, MD, Mar. 13, 1998.
40. “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, Aug. 1997.
41. “Overview of Workflow Research and Technology.” Invited Talk, *DARPA Collective Actions Tools Workshop*, Mar. 1996.
42. “From Data Dirt Roads to Infocosm.” Inaugural session Invited Talk, *7th International Conference on Management of Data*. Pune, India, Dec. 1995.

## **Invited and Colloquia Talks**

## **(Conference and workshop paper presentations/talks not included.)**

1. Sheth, Amit. "Transforming Big Data into Smart Data: Deriving Value via Harnessing Volume, Variety & Velocity Using Semantics and Semantic Web."[CSIT Seminar: Transforming Big Data into Smart Data: Deriving Value via Harnessing Volume, Variety & Velocity Using Semantics and Semantic Web](https://www.facebook.com/events/1542301926036877/). RMIT School of Computer Science and Information Technology. Melbourne, Australia. Mar. 18, 2015.
2. Sheth, Amit. "Transforming Big Data into Smart Data: Deriving Value via Harnessing Volume, Variety & Velocity Using Semantics and Semantic Web." Commonwealth Scientific and Industrial Research Organisation. Hobart, Australia. Mar. 16, 2015.
3. Sheth, Amit. "[Citizen Sensor Data Mining, Social Media Analytics and Applications](http://www.slideshare.net/apsheth/citizen-sensor-data-mining-social-media-analytics-and-applications)." [Singapore Symposium on Sentiment Analysis](http://s3a.sentic.net/). Nanyang Technology University. Feb. 6, 2015.
4. Sheth, Amit. "[Smart Data - How You and I Will Exploit Big Data for Personalized Digital Health and Many Other Activities](http://www.i2r.a-star.edu.sg/events/smart-data-how-you-and-i-will-exploit-big-data-personalised-digital-health-and-many-other)." Institute for Infocomm Research (I²R), Agency for Science, Technology & Research (A\*STAR). Feb. 5, 2015.
5. Sheth, Amit. "Transforming Big Data into Smart Data." Vienna University of Economics and Business. Vienna, Austria. Dec. 17, 2014.
6. Sheth, Amit. "[Citizen Sensor Data Mining, Social Media Analytics, and Applications](http://sesame.comp.nus.edu.sg/node/50)." SaSeMe Institute. National University of Singapore. Singapore, Republic of Singapore. Feb. 25, 2014.
7. Sheth, Amit."[Citizen Sensor Data Mining, Social Media Analytics and Applications](http://sesame.comp.nus.edu.sg/news-and-events/technical-talks/item/50-sesame-seminar-by-professor-amit-sheth)."[SaSeMe Institute](http://sesame.comp.nus.edu.sg/). National University of Singapore. Singapore, Republic of Singapore. Feb. 25, 2014.
8. Sheth, Amit. "Transforming Big Data into Smart Data." Nanyang Technological University. Singapore, Republic of Singapore. Feb. 13, 2014.
9. Sheth, Amit. "Transforming Big Data into Smart Data." University of Malaysia. Kuala Lampur, Malaysia. Feb. 10, 2014.
10. Sheth, Amit. "[Transforming Big Data into Smart Data](http://research.larc.smu.edu.sg/research_seminars/2014/amit_sheth.htm)." Singapore Management University. Singapore, Republic of Singapore. Feb. 6, 2014.
11. Sheth, Amit. "[Transforming Big Data into Smart Data](http://www.i2r.a-star.edu.sg/events/seminartransforming-big-data-smart-data-deriving-value-harnessing-volume-variety-and-velocity)." [Institute for Infocomm Research (I²R), Agency for Science, Technology & Research (A\*STAR)](http://www.i2r.a-star.edu.sg/). Singapore, Republic of Singapore. Jan. 29, 2014.
12. Sheth, Amit. "[Transforming Big Data into Smart Data](https://www.iiitd.ac.in/research/seminar/2013-14)." International Institute of Information Technology. New Delhi, India. Jan. 16, 2014.
13. Sheth, Amit. "[Transforming Big Data into Smart Data](http://calendar.iisc.ernet.in/abstract.php?mid=MID201020827)." Indian Institute of Sciences. Bangalore, India. Jan. 8, 2014.
14. Sheth, Amit. "Transforming Big Data into Smart Data." EMC Corporation. Bangalore, India. Jan. 7, 2014.
15. Sheth, Amit. "Physical-Cyber-Social Computing." Computer Society of India, Ahmedabad Education Society Institute for Computer Studies. Ahmedabad, India. Jan. 4, 2014.
16. Sheth, Amit. "Physical-Cyber-Social Computing." International Institute of Information Technology. Bangalore, India. Jan. 1, 2014.
17. Sheth, Amit. "Transforming Big Data into Smart Data." International Institute of Information Technology. Gandhinagar, India. Jan. 1, 2014.
18. Sheth, Amit. "[Transforming Big Data into Smart Data](http://mitpune.com/dept-IT/event-dept-it.aspx)." Maharastra Institute of Technology. Pune, India. Dec. 24, 2013.
19. Sheth, Amit. “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 - Jun. 01, 2012.
20. Sheth, Amit. “[Web 3.0 and beyond: Semantics empowered Cyber-Physical, Social and Ubiquitous Computing beyond the Web](http://iucee.org/iucee/course/category.php?id=69).” Webinar organized by the Indo US Collaboration for Engineering Education (IUCEE), Mar. 26, 2011.
21. Sheth, Amit. “[Computing for Human Experience: Semantics empowered Sensors, Services, and Social Computing on ubiquitous Web](http://www.ai.sri.com/seminars/detail.php?id=307).” SRI International, Menlo Park, CA, May 3, 2010.
22. Sheth, Amit. “[Semantic (Web) Technologies for Translational Research in Life Sciences](http://swl.slis.indiana.edu/events.html).” The School of Informatics and Computing Colloquium Series. Indiana University, Feb. 5, 2010.
23. Sheth, Amit. “Semantics to Empower Services for Agile Global Business.” Indian Institute of Technology. Bombay, Powai, India, Aug. 1, 2009.
24. Sheth, Amit. “Semantics, Services, Sensor and Social Computing on the Web.”Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT), Gandhinagar, India, Jul. 29, 2009.
25. Sheth, Amit (with K. Lulla and S. 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).
26. Sheth, Amit. "Semantic Sensor Web." Advancing Digital Watersheds and Virtual Environmental Observatories II session of AGU Fall Meeting, San Francisco, CA, USA, Dec. 17, 2008
27. Sheth, Amit. “Computing For Human Experience.” Department of Computer Science (DSIC) of the Technical University of Valencia (UPV), Valencia, Spain, Oct. 24, 2008.
28. Sheth, Amit. “Challenges of Creating a Knowledge-based Society: Education & Research for India & Gujarat.” Invited Talk, World Gujarat Conference: Chaalo Gujarat. Edison, NJ, Aug. 30, 2008.
29. Sheth, Amit. “Globalization and Knowledge-intensive Economies.” AINA/World Gujarat Conference, Edison. NJ, Aug 29-31, 2008.
30. Sheth, Amit. “Semantic Web: Promising Technologies, Current Applications and Research Directions.” Macquarie University, Sydney, Aug. 14, 2008.
31. Sheth, Amit. “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, Aug. 13, 2008.
32. Sheth, Amit. “Semantics to Empower Services Science: Using Semantics at Middleware, Web Services and Business Levels.” CSIRO. Canberra, Australia, Aug. 11, 2008.
33. Sheth, Amit. “[Semantic Sensor Web](http://knoesis.wright.edu/library/resource.php?id=00314).” ARC Research Network on Intelligent Sensors. Sensor Networks and Information Processing - ISSNIP talk, Melbourne, Australia, Aug. 1, 2008.
34. Sheth, Amit. “Semantic Web: Promising Technologies, Current Applications & Future Directions.” University of Adelaide, Australia, Jul. 23, 2008.
35. Sheth, Amit. “Semantic Sensor Web.” Semantic Technology Conference, San Jose, CA, May 18-22, 2008.
36. Sheth, Amit. “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.
37. Sheth, Amit. “Dynamic and Agile SOA using SAWSDL.” Semantic Technology Conference. San Jose, CA, May 18, 2008.
38. Sheth, Amit. “Semantic Sensor Web.” Sensor Web Enablement (SWE) Working Group of the Open Geospatial Consortium ([OGC](http://www.opengeospatial.org/event/0803tcagenda)), St. Louis, MO, Mar. 26, 2008.
39. Sheth, Amit. “Semantic Sensor Web.” Special SICoP Conference, Building Semantic Interoperability Solutions for Information Sharing and Integration. Falls Church, VA, Feb. 5, 2008.
40. Sheth, Amit. “[Strategic Importance of Higher Education and Research in Positioning Gujarat for Global Competitiveness](http://knoesis.wright.edu/library/download/AmitSheth-Global-Gujarat.ppt).” Plenary Invited Talk, Global Gujarat & Its Diaspora, Hemchandracharya North Gujarat University, Patan, India, Jan. 17–19, 2008.
41. Sheth, Amit. “Relationship Web: Spinning the Semantic Web from Trailblazing to Complex Hypothesis Evaluation.” Cyber Center Lecture Series. Discovery Park, Purdue University, Lafayette, IN, Aug. 16, 2007.
42. Sheth, Amit. “Relationship Web: Spinning the Semantic Web from Trailblazing to Complex Hypothesis Evaluation.” Presentation, College of Engineering, University of Illinois at Chicago, Chicago, IL, 2007.
43. Sheth, Amit. “Semantic Empowerment of Life Science Applications.” Cincinnati Children Hospital and Medical Center, Cincinnati, OH, Oct. 14, 2006.
44. Sheth, Amit. “Career Options, Changing Trends and Emerging Areas in Computer Science and related fields.” Birla Institute of Technology & Science, Pilani, India, Sept. 30, 2006.
45. Sheth, Amit. “Semantics to energize the full Services Spectrum.” IBM Indian Research Lab, New Delhi, India, Jul. 27, 2006.
46. Sheth, Amit. “Semantics to energize the full Services Spectrum.” DA-IICT. Ahmedabad, India, Jul. 25, 2006.
47. Sheth, Amit. “METEOR-S: Using Semantics to energize Services & Processes.”DERI. Galway, Ireland, Jun. 19, 2006.
48. Sheth, Amit. “Semantic Web applications in Financial Industry, Government, Health care and Life Sciences.” Accenture Technology Labs, Palo Alto, CA, Mar. 29, 2006.
49. Sheth, Amit. “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, Mar. 6, 2006.
50. Sheth, Amit. “Web Service Semantics-WSDL-S.” W3C Advisory Committee Meeting, Montreal, Canada, Nov. 30, 2005.
51. Sheth, Amit. “What can Semantics do for Bioinformatics?” Special Seminar, Institute of Bioinformatics, University of Georgia, Sept. 22, 2005.
52. Sheth, Amit. “Semantic Web Applications in Enterprises and Scientific Research.” W3C Advisory Committee Meeting, Cannes-Mandelieu, France, Jun. 7, 2005.
53. Sheth, Amit. “Semantic Web: Technology & Applications in Search, Digital Media/Content Management, Science and National/Homeland Security.” Digimarc Corp., Portland, OR, May 3, 2005.
54. Sheth, Amit. “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, Oct. 26, 2004.
55. Sheth, Amit. “Web Services to Semantic Web Process.” Tsinghua University, Beijing, China, Sept. 16, 2004.
56. Sheth, Amit. “Semantic Web Technology in Action: From Search and Integration to Analytics.” Shanghai Jiao Tong University, Shanghai, China, Sept. 15, 2004.
57. Sheth, Amit. “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.
58. Sheth, Amit. “Semantic Web in Action.” NASA Ames Research Center, Menlo Park, CA, Apr. 1, 2004.
59. Sheth, Amit. “Semantic Web in Action.” IBM Almaden Research Center, Jan. 13, 2004.
60. Sheth, Amit. “Semantic Discovery and its applications to Homeland Defense and Bioinformatics.” Georgia Technology Institute, Atlanta, GA, Nov. 24, 2003.
61. Sheth, Amit. “Ontology-based Information Systems: From Research to Reality.” Boeing PhantomWorks, Seattle, WA, Sept. 17, 2003.
62. Sheth, Amit. “Semantic Web Process Lifecycle: Role of Semantics in Annotation, Discovery, Composition and Orchestration.” IBM T.J. Watson Research Center, Hawthorne, NY, Jul. 10, 2003.
63. Sheth, Amit. “Ontology Driven Information Systems in Action: Capturing and Applying Existing Knowledge to Semantic Applications.” University of Namur, Belgium, Jun. 2003.
64. Sheth, Amit. “Semantic Web Applications and Next Generation Content Management.” Hongik University, Seoul, Korea, Oct. 30, 2001.
65. Sheth, Amit. “Web, Semantics, OIL and FUEL: Semantic Interoperability and learning on the Web.” Stanford University Database Seminar, Oct. 20, 2000.
66. Sheth, Amit. “Mapping your job search process while balancing Career Growth, Pay and Security.” ACM Student Chapter 1st Annual ACM Dinner, Athens, GA, Apr. 5, 2001.
67. Sheth, Amit. “Changing Focus on Interoperability in Global Information Systems.” Technical Speaker Series, MITRE, Dec. 3, 1998.
68. Sheth, Amit. “Enabling Virtual Teams and Infocosm.” Bell Communications Research, Dec. 2, 1998.
69. Sheth, Amit. “METEOR System for Distributed, Multi-paradigm Workflow Management.” Invited technical presentation, CERN, Geneva, Switzerland, Mar. 31, 1998.
70. Sheth, Amit. “InfoHarness and InfoQuilt: Steps towards enabling Infocosm through Semantic Interoperability.” colloquium talk, University of California, Santa Barbara, Mar. 5, 1998.
71. Sheth, Amit. “InfoHarness and InfoQuilt Projects.” CNN Interactive, Atlanta, GA, Apr. 21, 1997.
72. Sheth, Amit. “Information (Super) Highway: New Opportunities for Global Competitive Advantage for Developing Countries.” H. M. College, Ahmedabad, India, Sept. 12, 1996.
73. Sheth, Amit. “Information (Super) Highway: New Opportunities for Global Competitive Advantage for Developing Countries.” IEEE Computer Society. Gujarat, India, Sept. 11, 1996.
74. Sheth, Amit. “Media–independent Correlation and Access of Heterogeneous Digital Information.” Indian Space Research Organization, Ahmedabad, India, Sept. 9, 1996.
75. Sheth, Amit. “Adapt/X Harness System for Managing Heterogeneous Information in Internet and Intranets.” Conference on Very Large Databases, Bombay, India, Sept. 4, 1996.
76. Sheth, Amit. “Transactional Workflow Management: Research, Technology and Applications.” Indian Institute of Management, Ahmedabad, India, Dec. 1994.
77. Sheth, Amit. “Issues in Interoperable Information Systems.” Indian Institute of Technology, Bombay, India, Dec. 29, 1994.
78. Sheth, Amit. “Multi-Database Systems: Research and Reality.” ACM Lecture Series Talk, Univ. of Michigan, Nov. 1994.
79. Sheth, Amit. “Transactional Workflow Systems.” ACM Lecture Series Talk, Wayne State University, Detroit, MI, Nov. 17, 1994.
80. Sheth, Amit. “Multi-Database Systems: Research and Reality.” ACM Lecture Series Talk, ACM Professional Chapter, Ann Arbor, MI, Nov. 17, 1994.
81. Sheth, Amit. “Multi-system Applications and Transactional Workflows.” George Mason University, Fairfax, VA, May 1994.
82. Sheth, Amit. “Multisystem Applications and Transactional Workflows.” University of California, Riverside, Apr. 1994.
83. Sheth, Amit. “Transactional Workflow Management: Research, Technology and Applications.” State University of New York, Albany, NY, Mar. 1994.
84. Sheth, Amit. “Transactional Workflow Management: Research and Applications.” Bell Labs, Murray Hill, NJ, Jul. 1993.
85. Sheth, Amit. “Transactional Workflow Management: Research and Applications.” Matsushita Information Technology Laboratory, Princeton, NJ, Jun. 1993.
86. Sheth, Amit. “Management of Interdependent Data: Specification, Enforcement and Applications.” University of Zurich, Zurich, Switzerland, May 1993.
87. Sheth, Amit. “Schematic and Semantic Heterogeneity.” ETH (Swiss Federal Institute of Technology), Zurich, Switzerland, May 1993.
88. Sheth, Amit. “Multisystem Workflow Applications.” University of Munich, Apr. 1993.
89. Sheth, Amit. “Management of Interdependent Data: Specification, Enforcement and Applications.” George Mason University, Fairfax, VA, Mar. 1993.
90. Sheth, Amit. “BERDI: A Schema Design, Analysis and Integration Toolkit.” Hewlett Packard Labs, Feb. 1993.
91. Sheth, Amit. “The CHIME Project.” Microelectronics and Computer Corporation, Austin, TX, Jan. 1993.
92. Sheth, Amit. “Multidatabase Systems: Research and Reality.” Queensland University of Technology, Brisbane, Australia, Nov. 1992.
93. Sheth, Amit. “Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases.” La Trobe University, Bandoora, Australia, Nov. 1992.
94. Sheth, Amit. “Management of Interdependent Data: Specification, Enforcement and Applications.” ETH (Swiss Federal Institute of Technology), Zurich, Switzerland, Oct. 1992.
95. Sheth, Amit. “Management of Interdependent Data.” IBM-European Networking Center and Scientific Research Heidelberg, Heidelberg, Germany, Oct. 1992.
96. Sheth, Amit. “Transactional Workflow Management: Specification and Enforcement.” IPSI–GMD, Darmstadt, Germany, Oct. 1992.
97. Sheth, Amit. “Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases.” University of Ulm, Oct. 1992.
98. Sheth, Amit. “The BrAID System for Integrating AI and DBMS Systems.” Fern Universitat, Hagen, Germany, Oct. 1992.
99. Sheth, Amit. “Multidatabase Systems: Research and Reality.” Simon Fraser University, Vancouver, Canada, Aug. 1992.
100. Sheth, Amit. “Management of Interdependent Data in Multidatabase Systems.” U of Maryland–BC, May 1992.
101. Sheth, Amit. “Management of Interdependent Data.” IPSI–GMD, Darmstadt, Germany, Mar. 1992.
102. Sheth, Amit. “Semantics Issues in Schema Integration.” IPSI–GMD, Darmstadt, Germany, Mar. 1992.
103. Sheth, Amit. “Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases.” CRAI, Italy, Mar. 1992.
104. Sheth, Amit. “Data Consistency and Work Flow Management in Multidatabase Systems.” VTT (National Research Center of Finland), Helsinki, Finland, Mar. 1992.
105. Sheth, Amit. “Management of Interdependent Data in Multidatabase Systems.” Matsushita Information Technology Laboratory, Princeton, NJ, Feb. 1992.
106. Sheth, Amit. “Management of Interdependent Data: A Case Study at Bellcore.” Microelectronics and Computer Corporation, Austin, TX, Jan. 1992.
107. Sheth, Amit. “Research Issues in Schema Integration and View Update.” University of Houston, TX, Oct. 1991.
108. Sheth, Amit. “Federated Database Systems.” Boeing, Seattle, WA, Oct. 1991.
109. Sheth, Amit. “Federated Database Systems.” ACM professional chapters at Piscataway, NJ, Apr. 1991.
110. Sheth, Amit. “Schematic and Semantic Issues in Schema Integration.” New Jersey Institute of Technology, Newark, Mar. 1991.
111. Sheth, Amit. “Federated Database Systems: Architecture and Alternatives.” New Jersey Institute of Technology, Newark, Jan. 1991.
112. Sheth, Amit. “Integrating Heterogeneous Distributed Databases: Requirements, Concepts and Solutions.” New Jersey Institute of Technology, Newark, Oct. 1990.
113. Sheth, Amit. “Research Issues in Schema Integration and View Update.” Purdue University, West Lafayette, IN, Oct. 1990.
114. Sheth, Amit. “Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases.” IBM-European Networking Center and Scientific Research Heidelberg, Germany, Aug. 1990.
115. Sheth, Amit. “View Update Using Knowledge at View Definition and View Update Time.” IPSI-GMD, Darmstadt, Germany, Aug. 1990.
116. Sheth, Amit. “Federated Databases for Managing Distributed, Heterogeneous, and Autonomous Databases.” Fern Universitat, Hagen, Germany, Aug. 1990.
117. Sheth, Amit. “Federated Database Systems.” Bell Communications Research, Red Bank, NJ, Feb. 1990.
118. Sheth, Amit. “Integrating Heterogeneous Distributed Databases: Requirements, Concepts and Solutions.” University of California, Los Angeles, Oct. 1988.
119. Sheth, Amit. “View Update Using Knowledge at View Definition and View Update Time.” Fern Universitat, Hagen, Germany, Mar. 1988.
120. Sheth, Amit. “View Update Using Knowledge at View Definition and View Update Time.” INRIA, France, Mar. 1988.
121. Sheth, Amit. “View Update Using Knowledge at View Definition and View Update Time.” Unisys West Coast Research Center, Apr. 1987.
122. Sheth, Amit. “Integrating Heterogeneous Distributed Databases.” University of Minnesota, Sept. 1986.

## **Chief Guest/Speaker at Special Events**

1. “Transforming Big Data into Smart Data: Deriving Value via harnessing Volume, Variety, and Velocity using semantic techniques and technologies.” IBM Distinguished Speaker Series, IBM Almaden Research Center, San Jose, CA, Jul. 1, 2014. ([Abstract](http://knoesis.org/amit/speeches/IBM-DSS.pdf), [Slides](http://j.mp/ICDE-key), [Video](http://youtu.be/uHz_jSz-Ie0))
2. [“Computing for Human Experience: Semantics empowered Sensors, Services, Social and Ubiquitous Computing in Web 3.0 and beyond](http://www.ncsa.illinois.edu/News/Video/2010/sheth.html).” University of Illinois, National Center for Supercomputing Applications (NCSA). Urbana-Champaign, IL, Oct. 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, Aug. 5, 2009.
4. “Semantic Web: Promising Technologies and Current Applications.” Invited talk at the Reed Elsevier EPIC Conference, Toronto, Canada, Oct. 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, Apr. 18, 2007.
6. “Semantic Web applications in Industry, Government, Health Care and Life Sciences.” Keynote Address at the [daytaOhio](http://www.daytaohio.com/)-organized conference *From Research to Reality*. Wright State University, Dayton, OH, Oct. 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, Jun. 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, Apr. 27, 2000.
9. “An Overview of Workflow Management: From Process Modeling to Workflow Automation.” CERN-wide Computing Colloquium, CERN, Geneva, Switzerland, Mar. 31, 1998.
10. “Workflow Management: Technology, Experiences and Research.” special university-industry seminar, Universidade Nove de Lisboa, Lisbon, Portugal, Mar. 25, 1998.
11. “Information (Super) Highway: New Opportunities for Global Competitive Advantage for Developing Countries.” city-wide talk organized by Ahmedabad Management Association, India, Aug. 26, 1996.
12. “Multidatabase Systems: Research and Reality.” Invited guest speaker at the *1st Symposium of the Tsukuba Advanced Research Alliance (TARA)*. Tsukuba, Japan, Mar. 4, 1995.
13. “Information By-Ways, Lanes, and Superhighway.” Citywide talk organized by the Ahmedabad Management Association, Ahmedabad, India, Dec. 1994.
14. Special guest and speaker at the UBILAB Workshop on Data Management Scenarios at Union Bank of Switzerland, Zurich, Apr. 28, 1993.
15. Primary speaker for the Workshop on Federated Database Systems (for the members of CRAI consortium), CRAI, Render, Italy, Mar. 23–24, 1992.  Presented and led discussions for 21 hours.

## **Tutorial Presentations at International Conferences**

1. A. Sheth, H. Purohit, [P. Meier](http://irevolution.net/bio/), and [C. Castillo](http://www.chato.cl/research/). “[Crisis Mapping, Citizen Sensing and Social Media Analytics: Leveraging Citizen Roles for Crisis Response](http://www.icwsm.org/2013/program/tutorial/).” *7th International Conference on Weblogs and Social Media (ICWSM-13)*. Boston, MA, Jul. 2013.
2. A. Sheth, P. Anantharam, P. Barnaghi. “Data Processing and Semantics for Advanced Internet of Things (IoT) Applications: modeling, annotation, integration, and perception.” *WiMS2013: International Conference on Web Intelligence, Mining and Semantics*. Madrid, Spain, Jun. 12-14, 2013.
3. A. Sheth, K. Thirunarayan, P. Anantharam, C. Henson. “Trust Networks.” *2012 International Conference on Collaboration Technologies and systems (CTS 2012)*. Denver Colorado, May 21-25, 2012.
4. A. Sheth, S. S. Sahoo, G. Zhang. “Role of Semantic Web in Health Informatics.” *2012 ACM SIGHIT International Health Informatics Symposium (IHI 2012)*, Jan. 28-30, 2012.
5. A. Sheth, K. Gomadam, S. Velmurgan. “Citizen Sensing, Social Media Analytics, and Applications.” [*2011 Semantic Technology Conference (SemTech*](http://semtech2011.semanticweb.com/)*)*. San Francisco, CA, Jun. 6, 2011.
6. [“Citizen Sensor Data Mining, Social Media Analytics and Development Centric Web Applications,”](http://www.www2011india.com/tutorialstr27.html) (with Meena Nagarajan and Selvam Velmurugan), 20th World Wide Web Conference (WWW2011), Hyderabad, India, Mar. 28, 2011.
7. A Sheth, P. Jain, P. Hitzler, P. Z. Yeh, K. Verma. “[How to Make Linked Data More than Data](http://semtech2010.semanticuniverse.com/programDetails.cfm?ptype=K&optionID=206&pgid=4).” *Semantic Technology Conference 2010*. San Francisco, CA, Jun. 23, 2010.
8. A. Sheth, K. Gomadam, A. Joshi. “[Mobile Semantic Computing](http://knoesis.wright.edu/library/resource.php?id=1109).” *2nd International Conference on Semantic Computing (*[*ICSC2008*](http://icsc.eecs.uci.edu/)*)*. Santa Clara, CA, Aug. 4–7, 2008.
9. A. Sheth, M. Nagarajan, C. Ramakrishnan. “Text Analytics for Semantic Computing—the good, the bad and the ugly.” *2nd International Conference on Semantic Computing (*[*ICSC2008*](http://icsc.eecs.uci.edu/)*)*. Santa Clara, CA, Aug. 4–7, 2008.
10. A. Sheth, K. Verma. “Using SAWSDL for Semantic Service Interoperability.” *Semantic Technology Conference*. San Jose, CA, May 20–24, 2007.
11. A. Sheth, S. Stephens. “[Semantic Web: Technologies and Applications for the Real-World](http://www2007.org/tutorial-T11.php).” *16th World Wide Web Conference (WWW2007)*. Banff, Canada, May 8–12, 2007.
12. A Sheth, K. Verma, K. Gomadam. “WSDL–S: Specification, Tools, Use Cases and Applications.” *Semantic Technology Conference*. San Jose, CA, Mar. 7, 2006.
13. “[Lifecycle of Semantic Web Processes](http://gnomo.fe.up.pt/~caise/tutorials.php#2)” (with Jorge Cardoso), *17th Conference on Advanced Information Systems Engineering (CAiSE'05)*, Porto, Portugal, Jun. 13, 2005.
14. A. Sheth, F. Curbera, K. Verma. “[Service Oriented Architectures and Semantic Web Processes](http://knoesis.wright.edu/library/download/ICWS-tutorial-2004.ppt).” *2004 IEEE International Conference on Web Services (ICWS 2004)*. San Diego, CA, Jul. 7, 2004.
15. A Sheth, J. Cardoso, F. Curbera. “Service Oriented Architectures and Semantic Web Processes.” *13th International World Wide Web Conference*. New York, NY, May 17, 2004.
16. A. Sheth, J. Cardoso. “Semantic Web Processes: Semantics Enabled Annotation, Discovery, Composition and Orchestration of Web Scale Processes.” *4th International Conference on Web Information Systems Engineering (WISE 2003)*. Rome, Italy, Dec. 10–12, 2003. [Abstract](http://csdl.computer.org/comp/proceedings/wise/2003/1999/00/19990375.pdf)
17. A. Sheth, J. Cardoso. “Semantic Web Processes: Semantics Enabled Annotation, Discovery, Composition and Orchestration of Web Scale Processes”, *4th International Conference on Web Information Systems Engineering (WISE 2003)*. Rome, Italy, Dec. 10–12, 2003.
18. A. Sheth, J. Cardoso. “Semantic Web Processes.” *1st German Conference on Multiagent System Technologies and Net Object Days*. Erfurt, Germany, Sept. 22–25, 2003.
19. A. Sheth, J. Cardoso, C. Bussler. “Semantic Web Services and Processes: Semantic Composition and Quality of Service.” *International Federated Conferences*: DOA/ODBASE/CooPIS 2002, Irvine, CA, Oct. 28–29, 2002.
20. “[On the Move to Meaningful Internet Computing and Ubiquitous Computer 2002](http://lsdis.cs.uga.edu/library/presentations/).” International Federated Conferences: DOA/ODBASE/CooPIS 2002, Irvine, CA, Oct. 28-29, 2002.
21. A. Sheth, J. Miller. “Workflow Management: Technology, Experiences and Research.” *IEEE International Conference on Data Engineering*. Orlando, FL, Feb. 23, 1998.
22. “Workflow Automation: Applications, Technology, and Research.” *ACM SIGMOD International Conference on Management of Data*. San Jose, CA, May 24, 1995; *International Conference On Information Systems Engineering (CAiSE ‘95)*. Finland, Jun. 14, 1995.
23. “Multidatabase Interoperation: Perspective of Researchers & Practitioners.” 11th International Conference on Data Engineering, Taiwan, Mar. 1995.
24. “Database and Application Interoperability in Industry: Requirements, Technology, Research Issues and Case Studies.” *6th International Conference on Management of Data*. Bangalore, India, Dec. 1994.
25. A. Sheth, D. McLeod. “Interoperability in Multidatabase Systems.” *20th International Conference on Very Large Data Bases*. Chile, Sept. 1994.
26. “Interoperability in Multidatabase Systems.” Course offered by ETH (Swiss Federal Institute of Technology), Zurich, Switzerland, Apr. 1993.
27. A. Sheth, M. Rusinkiewicz. “Multidatabase Systems: Technology and Applications.” *3rd International Conference on Data Engineering*. Vienna, Austria, Apr. 1993.
28. “Issues and Applications Support in Interoperable Database Systems.” *IFIP DS-5 Conference on Semantics of Interoperable Database Systems*. Melbourne, Australia, Nov. 1992.
29. A. Sheth, M. Rusinkiewicz “Multidatabase Applications: Semantics and Systems Issues.” *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, Sept. 1991; *Workshop on Federated Databases*. Rende, Italy, Mar. 1992.
31. “Heterogeneous Distributed Databases: Issues in Integration.” *ACM SIGMOD Conference*, 1989; *3rd International Conference on Data Engineering*, 1987 and 1990.
32. “Integrating Heterogeneous Distributed Databases: Requirements, Concepts, and Solutions.” at the Fall Joint Computer Conference, Oct. 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.” Workshop on Management of Interdependent Data (with A. Elmagarmid and M. Rusinkiewicz), 1990.

## **Panel Presentations at Conferences and Workshops**

1. Raxit Goswami, Neil Shah, and Amit Sheth. "[ezDI's semantics-enhanced linguistic, NLP, and ML approach for health informatics](http://knoesis.wright.edu/library/resource.php?id=2224)." Proc. of the 14th International Workshop on Semantic Web Enterprise Adoption and Best Practice ([WaSABi 2015](http://semanticarts.com/wasabi-2015-west/programme/)) at ISWC 2015, October 11, 2015, Bethlehem, PA, USA.
2. “Closing the gap between science and societal impact for inclusive smart cities:   
   Which scientific topics should we prioritize to enable a smarter nation?” *3rd Sinaporean-French Symposium on Inclusive Smart Cities and Digital Health*, Singapore, Feb. 2-3, 2015.
3. “Meet the Editors.” *10th International Semantic Web Conference (*[*ISWC 2011*](http://iswc2011.semanticweb.org/home/)*)*. Bonn, Germany, Oct. 23-27, 2011.
4. “[Semantic Social Networking Panel](http://semtech2010.semanticuniverse.com/programDetails.cfm?ptype=Y&optionID=78&pgid=3).” *2010 Semantic Technology Conference (SEMTECH 2010)*. San Francisco, CA, Jun. 21-25, 2010.
5. “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.” Mar. 22-24, 2010, Stanford CA.
6. “Context is highly contextual!” *4th European Conference on Smart Sensing & Context 2009*, Surrey, UK, Sept. 18, 2009.
7. “Analysis and Monetization of Social Data.” Panel on 'Semantifying Social Networks,' Semantic Technology Conference, San Jose, CA, Jun. 16, 2009.
8. “[Semantifying Social Networks](http://semanticweb.com/semantifying-social-networks_b13587).” Semantic Technology Conference, San Jose, CA, Jun. 16, 2009.
9. “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.
10. “The Semantic Web.” *7th International Semantic Web Conference (ISWC 2008).* Karlsruhe, Germany, Oct. 26-30, 2008. Proceedings Springer 2008.
11. S. Dustdar, Fiadeiro, A. Sheth: Business process management. *Data Knowl. Eng.* 64(1): 1-2 (2008).
12. “Relationship Web: Spinning the Web from Trailblazing to Semantic Analytics.” *27th International Conference on Conceptual Modeling (ER 2008)*. Barcelona, Spain, Oct. 20-23, 2008.
13. “Do the current Semantic Web standards and technologies benefit Heath Care and Life Science research today?” *1st International Workshop on Health Care and Life Sciences Data Integration for the Semantic Web (HCLS-DI2007)*, *16th International World Wide Web Conference (WWW2007)*. Banff, Canada, May 8, 2007. (Panelist.)
14. “Semantic Web and Database Conferences.” *3rd International Workshop on Semantic Web and Databases*. Atlanta, GA, Apr. 8, 2006.
15. “Strengths & Weaknesses of Semantic Technology Solutions: View from the Vendor and Research Community.” *Taxonomies and Semantic Technologies for S&T Analysis Conference*, MITRE Corporation, Mar. 17, 2006.
16. “[Semantic Web Services: Past, Present, and Future](http://lsdis.cs.uga.edu/projects/meteor-s/dwp2005/index.php?page=7).” *International Workshop in Dynamic Web Processes (DWP 2005)*. Amsterdam, Netherlands, Dec. 12, 2005.
17. “FLINT and Semantic Web.” *BISCSE 2005: Forging New Frontiers*. Berkeley CA, Nov. 2–6, 2005.
18. “[Semantic Web Service Ontology Standard](http://ontolog.cim3.net/cgi-bin/wiki.pl?ConferenceCall_2005_10_20).” *Ontology Conference Call*. Oct. 20, 2005.
19. “Computing for Human Experience and Wellness.” Views from the labs panel at [Emerging Ventures Conference](http://www.emerging-ventures.com/agenda.asp), Boston, MA, Oct. 11, 2005.
20. “Future of Semantics.” *Semantic Technology Conference 2005*. San Francisco, CA, Mar. 8, 2005.
21. “Get Ready for Semantic Web.” *KMWorld/Intranets 2004*. Santa Clara, CA, Oct. 26, 2004.
22. “The Role of Web Services in Semantic Interoperability and Integration.” *Dagstuhl Seminar on Semantic Interoperability and Integration*. Dagstuhl, Germany, Sept. 20, 2004. (Panel Chair.)
23. “Web Service Choreography.” Panel at *WWW2003*, Budapest, Hungary, May 22, 2003. (Panel Chair.)
24. “Semantic (Web) Technology in Action—today.” panel: “The Semantic Web–Scientific American article considered harmful?” WWW2003, Budapest, May 21, 2003.
25. “‘Semantics’ in the Semantic Web: Is the Domain/Discipline Important?” *ODBASE '02*. Irvine, CA, Oct. 29, 2002.
26. “Summary of NSF Databases and the Semantic Web Workshop.” *Science on the Semantic Web: Building a New Generation of Environmental Information Systems*. Newark, NJ, Oct. 24, 2002.
27. “Research Directions for the Semantic Web.” *3rd OntoWeb Meeting*. Sardinia, Italy, Jun. 13, 2002.
28. “User Experience of Enterprise Semantic Content Management.” Symposium on the User Experience of Business Intelligence & Knowledge Management, IBM Almaden Research Center, San Jose, CA, Mar. 18, 2002.
29. “Semantic Web—Rehash or Research Goldmine.” *6th International Conference on Cooperative Information Systems (CoopIS 2001)*. Trento, Italy, Sept. 6, 2001. (Panel Chair.)
30. “Semantic Web: The Road Ahead.” *2nd International Workshop on the Semantic Web (SemWeb 2001)* at WWW10. Hong Kong, May 1, 2001.
31. “Creating Searchable Audio Video Web Sites.” *Streaming Media West 2000*. San Jose, CA, Dec. 14, 2000.
32. “Impact of Broadband.” *Internet Entrepreneur Conference*, sponsored by SiliconIndia, Atlanta, GA, May 8, 2000. (Panel Chair.)
33. “Future Research in Semantics of Multimedia Systems.” *8th IFIP 2.6 Working Conference on Database Semantics (DS-8)*. Rotorua, New Zealand, Jan. 4–8, 1999.
34. “Virtual Teams and Infocosm: Challenges for research in cooperative information systems.” *3rd Conference on Cooperative Information Systems*. New York, NY, Aug. 1998. (Panelist and Co-Chair.)
35. “Is Healthcare Ready for Internet? Technology Is!” Annual Meeting of the Healthcare Open Systems and Trials Consortium, Washington, DC, Nov. 1997.
36. “Cooperative Multiagent Systems for the Web.” *2nd IFCIS International Conference on Cooperative Information Systems*. Kiawah Island, SC, Jun. 1997. (Panel Chair.)
37. “Active Databases and Agents in Cooperative Information Systems.” *2nd IFCIS International Conference on Cooperative Information Systems*. Kiawah Island, SC, Jun. 1997. (Panelist.)
38. “World Wide What?” *4th International Conference on Parallel and Distributed Information Systems*. Miami, FL, Dec. 20, 1996. (Panelist.)
39. “What Can Database Contribute to Multidisciplinary Research in Work Activities Coordination?” *International Workshop on Advanced Models and Architectures*. Goa, India, Sept. 1, 1996. (Panel Chair.)
40. “Database Research in Workflow Management Systems, Do We Have Anything to Contribute*?”  International Conference on Cooperative Information Systems (CoopIS '96)*. Jun. 20, 1996. (Panelist)
41. “How Do We Meet the Challenges of the Global Computing Revolution?” *International Conference on Cooperative Information Systems (CoopIS '96)*, Jun. 21, 1996. (Panelist, plenary session panel.)
42. “Data Semantics: What, Where and How?” *6th IFIP TC-2 Working Conference on Data Semantics (DS-6)*. Stone Mountain, Georgia, Jun. 1995. (Panel Chair.) (See Section 3a, No. 7.)
43. “Information Resource Discovery: A Torch in the Deep Darkness of the Information Superhighway?”  *11th International Conference on Data Engineering*. Taiwan, Mar. 1995. (Panel Chair.)
44. “Where are Distributed Databases headed?” *6th International Conference on Management of Data*. Bangalore, India, Dec. 1994. (Panelist.)
45. “Challenges in Global Information Systems.” *20th International Conference on Very Large Data Bases*. Chile, Sept. 1994. (Panelist.)
46. “Why do we need Extended Transaction Models?” *16th IEEE-CS Computer Software & Applications Conference (COMPSAC ‘92)*, Sept. 1992. (Panelist.)
47. “Dealing with Heterogeneous Databases: Is the Research on Right Track?” *2nd International Conference on Systems Integration*. Morristown, PA, Jun. 1992. (Panel Chair.)
48. “Key Information Management Issues in the Real World.” *US West-NSF-DARPA Workshop on Heterogeneous Databases and Semantic Interoperability*. Boulder, CO, Feb. 1992. (Panelist, final plenary session panel.)
49. “Cooperative Database Design.” *17th International Conference on Very Large Data Bases*. Barcelona, Spain, Sept. 1991. (Panelist.)
50. “Resolving Semantic Heterogeneity.” *6th International Conference on Data Engineering*. Los Angeles, CA, Feb. 1990. (Panelist.)
51. “Does loose AI-DBMS coupling stand a chance?” *5th International Conference on Data Engineering*. Los Angeles, CA, Feb. 1989. (Panel Chair.)
52. “Can we Meaningfully Integrate Drawing, Text, Image, and Voice with Structured Data?” *4th International Conference on Data Engineering*. Los Angeles, CA, Feb. 1988. (Panel Chair)
53. “When will we have true Heterogeneous Databases?” *Fall Joint Computer Conference*, Oct. 1987. (Panelist.)
54. “Improving Concurrency in Distributed Systems.” *3rd International Conference on Data Engineering*, Feb. 1987. (Session discussant.)

# Publications

## **Book Series Editorship**

1. Ramesh Jain and Amit Sheth (Eds.), [Semantic Web and Beyond: Computing for Human Experience](http://www.springer.com/series/7056?detailsPage=titles), Springer, started 2005. Currently thirteen volumes in this series.  ISSN 1559-7474
   * 1. Volume 1: [Semantic Management of Middleware](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-27630-4), [Daniel Oberle](http://www.aifb.uni-karlsruhe.de/WBS/dob), 2006.
     2. Volume 2: [Canadian Semantic Web](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-29815-3), Mamadou Tadiou Koné and Daniel Lemire (Eds.), 2006.
     3. Volume 3: [Semantic Web Services, Processes and Applications](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-30239-3), Jorge Cardoso and Amit P. Sheth (Eds.), 2006.
     4. Volume 4: [Ontology Alignment, Bridging the Semantic Gap](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-32805-8), Marc Ehrig, 2006.
     5. Volume 5: [Social Networks and the Semantic Web](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-71000-6http:/knoesis.wright.edu/amit/publications/Mika_flyer-07.pdf), Peter Mika, 2007.
     6. Volume 6: [The Semantic Web: Real-World Applications from Industry](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-48530-0), Jorge Cardoso, Martin Hepp, and Miltiadis Lytras (Eds.), 2008.
     7. Volume 7: [Ontology Management, Semantic Web, Semantic Web Services, and Business Applications](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-69899-1), Martin Hepp, Pieter De Leenheer, Aldo de Moor, and York Sure (Eds.), 2008.
     8. Volume 8: [Semantic Web Services Challenge](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-72495-9), Charles Petrie, Holger Lausen, Michal Zaremba, and Tiziana Margaria-Steffen (Eds.), 2008.
     9. Volume 9: [Ontology Economics](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-88769-2), Martin Hepp and Robert Tolksdorf (Eds.), 2012
     10. Volume 9: [Terminological Ontologies](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-1-4419-6980-4), Javier Lacasta, Javier Nogueras-Iso, Soria Zarazaga and Javier Francisco (Eds.), 2010.
     11. Volume 10: [Semantic Business Process Management](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-79874-5), Martin hepp, Jogn Domingue and Alistair Barros (Eds.), 2012.
     12. Volume 12: [Geospatial Semantics and the Semantic Web: Foundations, Algorithms, and Applications](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-1-4419-9445-5), Naveen Ashish and Amit Sheth (Eds.), 2011.
     13. Volume 13: [Social Semantics](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-1-4614-1884-9), Harry Halpin Ed., 2013.
2. Ahmed Elmagamid and Amit Sheth (Eds.), [Advances in Database Systems](http://www.springer.com/dal/home/computer/computer+series?SGWID=1-40099-69-173623966-0), Springer. Prof. Sheth joined as co-editor in Jul. 2007.

## **Books Authored or Co-Authored**

1. A. Sheth, K. Thirunarayan. *Semantics Empowered Web 3.0: Managing Enterprise, Social, Sensor, and Cloud-based Data and Services for Advanced Applications*. Morgan & Claypool Publishers. Dec. 19, 2012.
2. V. Kashyap, A. Sheth. *Information Brokering across Heterogeneous Digital Data*. Kluwer Academic Publishers, Aug. 2000, pp. 248.

## **Books Edited and Co-Edited**

1. A. Sheth. [*Semantic Web: Ontology and Knowledge Base Enabled Tools, Services and Application*](http://www.igi-global.com/book/semantic-enabled-advancements-web/58281), 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*](http://www.igi-global.com/book/semantic-enabled-advancements-web/58281). 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*](http://www.igi-global.com/book/semantic-services-interoperability-web-applications/47114). IGI Global, Jun. 2012, pp. 1-420. DOI: 10.4018/978-1-60960-593-3, ISBN13: 9781609605933.
4. A. 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, N. Ashish,  [*Geospatial Semantics and the Semantic Web: Foundations, Algorithms, and Applications, in Series: Semantic Web and Beyond*. Vol. 12,](http://www.springer.com/computer/database+management+&+information+retrieval/book/978-1-4419-9445-5) Springer 2011.
6. M. Lytras, A. Sheth. [*Progressive Concepts for Semantic Web Evolution: Applications and Developments*](http://www.igi-global.com/book/progressive-concepts-semantic-web-evolution/37285). IGI Global, 2010. 1-410. DOI: 10.4018/978-1-60566-992-2
7. A. Sheth, M. Lytras, [*Semantic Web-Based Information Systems: State-of-the-Art Applications*](http://www.igi-pub.com/books/details.asp?id=6486), CyberTech Publishers/Idea Group, 2007, 317 pp. ISBN 1-59904-426-9 (hardcover), 1-59904-427-7 (softcover).
8. J. Cardoso, A. Sheth. [*Semantic Web Services, Processes and Applications*](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-0-387-30239-3), Springer, 2006, 405 pp. ISBN 0-38730239-5
9. A. Elmagarmid, M. Rusinkiewicz, A. Sheth. [*Management of Heterogeneous Distributed Database Systems*](http://www.amazon.com/exec/obidos/ASIN/155860216X/qid=1008472445/sr=1-2/ref=sr_1_8_2/107-1616733-9706941), Morgan Kaufmann Publishers, 1999.
10. A. Sheth, W. Klas. *Multimedia Data Management: Using Metadata to Integrate and Apply Digital Data*, McGraw Hill, 1998.
11. A. Dogac, L. Kalinechenko, T. Ozsu, A. Sheth. [*Workflow Management Systems and Interoperability*](http://www.amazon.com/exec/obidos/ASIN/3540644113/qid=1008472445/sr=1-4/ref=sr_1_8_4/107-1616733-9706941), NATO ASI Series F, Vol. 164, Springer, 1998.

## **Chapters in Books (50+)**

1. A. Sheth, A. Jadhav, P. Kapanipathi, C. Lu, H. Purohit, G. Smith, and W. Wang. Twitris- a System for Collective Social Intelligence. *Encyclopedia of Social Network Analysis and Mining (ESNAM)*. Reda Alhajj, Jon Rokne (Eds.). Springer, 2014.
2. K. Gunaratna, S. Lalithsena, and A. Sheth. Alignment and dataset identification of linked data in Semantic Web.[*Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, Volume 4, Issue 2,](http://onlinelibrary.wiley.com/doi/10.1002/widm.2014.4.issue-2/issuetoc) pp. 139-151, Mar./Apr. 2014, DOI: 10.1002/widm.1121
3. C. Aggarwal, N. Ashish, and A. Sheth. (2013). The Internet of Things: A Survey from the Data-Centric Perspective. *Managing and Mining Sensor Data*, pp. 383-428. Retrieved from <http://link.springer.com/chapter/10.1007/978-1-4614-6309-2_12>
4. A. Sheth and K. 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. M. Perry, P. Jain, and A. Sheth. SPARQL-ST: Extending SPARQL to Support Spatiotemporal Queries. *Geospatial Semantics and the Semantic Web: Foundations, Algorithms, and Applications*. N. Ashish, A. Sheth (Eds.). Springer, 2011, pp. 61-86.
6. C. Thomas and A. Sheth. Web Wisdom: An Essay on How Web 2.0 and Semantic Web can foster a Global Knowledge Society. *Computers in Human Behavior*, Vol. 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. [*Handbook of Semantic Web Technologies, Volume 2: Semantic Web Applications*](http://knoesis.wright.edu/library/resource.php?id=750). Eds. J. Domingue; D. Fensel; J. Hendler. Springer, 2010.
8. S. Tartir, I. B. Arpinar, and A. Sheth. [Ontological Evaluation and Validation](http://springerlink.com/content/978-90-481-8846-8#section=761189&page=9&locus=49). *Theory and Applications of Ontology: Computer Applications.* Eds. Roberto Poli, Michael Healy, and Achilles Kameas. Springer, (Jun. 2010), pp. 115-130. ISBN: 978-90-481-8846-8
9. K. Aberer, A. Gal, M. Hauswirth, K.U. Sattler, and A. Sheth. [Semantic Challenges in Sensor Networks](http://drops.dagstuhl.de/opus/volltexte/2010/2557/). *Dagstuhl Seminar Proceedings*. Schloss Dagstuhl-Leibniz-Zentrum fuer Informatik, Germany, (May 2010) ISSN 1862-4405.
10. C. Pedrinanci, J. Domingue, and A. Sheth. Semantic Web Services. *Handbook of Semantic Web Technologies, Semantic Web Applications*, Vol. 2. J. Domingue, D. Fensel and J. Springer (Eds.), 2010.
11. L. Deligiannidis and A. Sheth. [Visualization of Two Parameters in a Three Dimensional Environment](http://knoesis.org/library/resource.php?id=00417). *Human-Computer Systems Interaction: Backgrounds and Applications*. Zdzislaw S. Hippe and Juliusz L. Kulikowski (Eds.). Springer-Verlag, 60, pp. 419-428, Oct. 2009. [ISBN: 978-3-642-03201-1](http://springerlink.com/content/d18111gu85386wk1/?p=cd56f520b3714722bc1f1b87ffa0d469&pi=0)
12. K. Gomadam, A. Ranabahu, Z. Wu, A. Sheth, and J. Miller. A Declarative Approach using SAWSDL and Semantic Templates towards Process Mediation. *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 (Eds.). (Dec. 2008) pp. 101-118.
13. A. Sheth, S. Agrawal, J. Lathem, N. Oldham, H Wingate, P. Yadav, and K. Gallegher. Active Semantic Electronic Medical Records. *The Semantic Web: Real World Applications from Industry*. J. Cardoso, M. Hepp, and M. Lytras (Eds.). Springer, 2008, pp. 123-140. ISBN-13: 978-9-387-48530-0.
14. P. Mika, R. Jain, and A. Sheth. Chapter 4: Knowledge representation on the Semantic Web. *Social Networks and the Semantic Web*. Springer 2007, pp. 65-92.
15. P. Mika, R. Jain, and A. Sheth. Chapter 5: Modeling and Aggregating Social Network Data. *Social Networks and the Semantic Web*. Springer 2007, pp. 93-120.
16. P. Mika, R. Jain, and A. Sheth. Chapter 6: Developing Social-Semantic Applications. *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. *Social Networks and the Semantic Web*. Springer, pp. 193-210.
18. S. Sahoo, A. Sheth, B. Hunter, and W. York. Semantic Biological Web Services Registry. *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. *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*. Ed. H. Karimia. 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. *Semantic Web: Revolutionizing Knowledge Discovery in the Life Sciences*. C. 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. *Advanced Topics in Database Research,*Vol. 5. Ed. K. L. Siau, Idea Group Publishers, 2006, pp. 401-419.
24. J. Cardoso and A. Sheth. The Semantic Web and its Applications. *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. *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. *Semantic Web Services, Processes and Applications*. J. Cardoso and A. Sheth (Eds.). Springer, 2006, pp. 163-198.
27. C. Thomas and A. Sheth. On the Expressiveness of the Languages for the Semantic Web-Making a Case for 'A Little More'. *Fuzzy Logic and the Semantic Web.* Ed. Eli Sanchez, Elsevier, 2006.
28. 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.
29. A. Sheth. Enterprise Application of Semantic Web: the Sweet Spot of Risk and Compliance. *Industrial Applications of Semantic Web*. M. Bramer and V. Terziyan (Eds.). Springer, 2005, pp. 47-62.
30. N. Oldham, C. Thomas, A. Sheth, and K. Verma. [METEOR-S Web Service Annotation Framework with Machine Learning Classification](http://www.springerlink.com/openurl.asp?genre=article&issn=0302-9743&volume=3387&spage=137). *Semantic Web Services and Web Process Composition, Lecture Notes in Computer Science,*Vol. 3387. Springer, Jan. 2005, pp. 137-146.
31. P. Rajasekaran, J. Miller, K. Verma, and A. Sheth. [Enhancing Web Services Description and Discovery to Facilitate Composition.](http://www.springerlink.com/index/KCWQTYKXTU83YDAL) *Semantic Web Services and Web Process Composition: 1st International Workshop*, *Lecture Notes in Computer Science*, Vol. 3387. Springer, Jan. 2005, pp. 55-68.
32. J. Cardoso and A. Sheth. Introduction to Semantic Web Services and Web Process Composition. *Semantic Web Services and Web Process Composition, Lecture Notes in Computer Science,*Vol. 3387. Springer, Jan. 2005, pp. 1-13.
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## **Workshop and Symposium Publications**

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2. S. Bischof, A. Karapantelakis, C.Nechifor, A. Sheth, A. Mileo, and P. Barnaghi. “Semantic Modelling of Smart City Data.” *W3C Workshop on the Web of Things: Enablers and services for an open Web of Devices*. Berlin, Germany, 25–26 Jun. 2014.
3. S. Perera, A. Sheth, K. Thirunarayan, S. Nair, and N. Shah. “Challenges in Understanding Clinical Notes: Why NLP Engines Fall Short and Where Background Knowledge Can Help.” *Proc. International Workshop on Data management & Analytics for healthcaRE (DARE) at ACM Conference of Information and Knowledge Management (CIKM)*. Burlingame, USA, Nov 1, 2013, pp. 21-26, DOI: 10.1145/2512410.2512427.
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15. V. Nguyen, O. Bodenreider, T. Minning, A. Sheth. “[The Knowledge-driven Exploration of Integrated Biomedical Knowledge Sources Facilitates the Generation of New Hypotheses](http://ceur-ws.org/Vol-783/paper6.pdf).” *Proc. 1st International Workshop on Linked Science (LISC 2011) collocated at ISWC2011.* Bonn, Germany, 2011.
16. P. Jain, P. Hitzler, Amit P. Sheth. “Flexible Bootstrapping-Based Ontology Alignment.” *Proc. Ontology Matching (OM-2010) co-located 5th International Workshop on Ontology Matching (ISWC2010),* Shanghai, China, pp. 136-137, Nov. 2010.
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## **Other Publications: Conference Proceedings**

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## **Other Publications: Magazine Guest Issue Articles and Invited Articles**

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22. Regular column on various issues on Workflow in ACM SIGGROUP Bulletin, quarterly 1997–1998.
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## **Editorship of International Conference and Workshop Proceedings**

1. S. Ilarri, A. Illarramendi, E. Mena, A. Sheth (Eds.). “Semantics in Location-Based Services (Guest editor's introduction).” *IEEE Internet Computing* 15(6), 2011, pp. 10-14.
2. A. P. Sheth, S. Staab, M. Dean, M. Paolucci, D. Maynard, T. W. Finin, K. Thirunarayan (Eds.). *The Semantic Web: ISWC 2008, 7th International Semantic Web Conference* *(ISWC 2008)*. Karlsruhe, Germany, Oct. 26-30, 2008. [*Proceedings, Lecture Notes in Computer Science Volume 5318, 2008*](http://www.springer.com/computer/database+management+%26+information+retrieval/book/978-3-540-88563-4). ISBN: 978-3-540-88563-4.
3. Q. Z. Sheng, U. Nambiar, A. Sheth, B. Srivastava, Z. Maamar, and S. Elnaffar (Eds.). [*Proceedings of the 2008 International Workshop on Context enabled Source and Service Selection, Integration and Adaptation*](http://portal.acm.org/toc.cfm?id=1361482&coll=ACM&dl=ACM&type=proceeding&idx=SERIES10714&part=series&WantType=Proceedings&title=AICPS&CFID=65807056&CFTOKEN=20288594) *(*[*CSSSIA08*](http://www.cs.adelaide.edu.au/~csssia08/)*)*, organized with the *17th International World Wide Web Conference (WWW 2008)*. Beijing, China, Apr. 22, 2008, *ACM International Conference Proceedings Series*, Vol. 292, 2008. ISBN: 978-1-60558-107-1.
4. S. Battle, J. Domingue, D. Martin, D. Roman, and A. Sheth (Eds.). “Workshop: Advances in Semantics for Web Services (semantics4ws 2007).” *Business Process Management Workshops: BPM International Workshops 2007*. Brisbane, Australia, Sept. 2007. *Revised Selected Papers, Lecture Notes in Computer Science*, Vol. 4928, Springer, pp. 457–516.
5. S. Dustdar, J. Fiadeiro, and A. Sheth (Eds.). [Business Process Management](http://www.springeronline.com/3-540-38901-6). *4th International Conference* *(BPM 2006)*. Vienna, Austria, Sept. 5–7, 2006, *Proceedings, Lecture Notes in Computer Science*, Vol. 4102, Springer.
6. P. Doshi, R. Goodwin, and A. Sheth (Eds.). *AI-Driven Technologies for Services-Oriented Computing*: Papers from the 2006 AAAI Workshop, AAAI Press, Jul. 16, 2006, 92 pp.  ISBN 978-1-57735-283-9.
7. A. Abecker, A. Sheth, G. Mentzas, and L. Stojanovic (Eds.). *Semantic Web Meets eGovernment*: Papers from the AAAI Spring Symposium. Menlo Park, CA, Mar. 27–29, 2006, TR SS-06-06, AAAI Press, 2006, 150 pp. ISBN 978-1-57735-267-9.
8. K. Verma, A. Sheth, M. Zaremba, and C. Bussler (Eds.).[*Proceedings of the International Workshop in Dynamic Web Processes*](http://domino.research.ibm.com/library/cyberdig.nsf/1e4115aea78b6e7c85256b360066f0d4/aabdccbcb8f787dd852570d000570430?OpenDocument) *(DWP 2005)*. Amsterdam, Netherlands, Dec. 12, 2005.  Available as IBM report RC23822, 96 pp.
9. J. Cardoso and A. Sheth (Eds.). “[Semantic Web Services and Web Process Composition: First International Workshop, SWSWPC 2004](http://www.springerlink.com/content/xmud2pc8yptn/#section=574854&page=1).” San Diego, CA, USA, Jul. 6, 2004, *Revised Selected Papers, Lecture Notes in Computer Science, Vol. 3386*, Springer, Mar. 2005.
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11. [J. Cardoso](http://www.sigmod.org/dblp/db/indices/a-tree/c/Cardoso:Jorge.html) and [A. P. Sheth](http://www.sigmod.org/dblp/db/indices/a-tree/s/Sheth:Amit_P=.html) (Eds.). *Semantic Web Services and Web Process Composition*: *1st International Workshop, SWSWPC 2004*. San Diego, CA, Jul. 6, 2004, *Revised Selected Papers,* [*Lecture Notes in Computer Science*](http://www.sigmod.org/dblp/db/journals/lncs.html)*, Vol.  3387*, Springer, 2005, viii, 147 pp. ISBN 3-540-24328-3 (softcover), 978-3-540-24328-1.
12. A. Sheth and K. Jeffery (Eds.). *2004 IEEE International Conferences on Services Computing*. Shanghai, China, Sept. 15–18, 2004, 653 pp.
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16. A. Sheth (Ed.), *Proceedings of the NSF Workshop on Workflow and Process Automation in Information Systems*. Athens, GA, May 1996, 164 pp.
17. H. Korth and A. Sheth (Eds.). *Proceedings of the 3rd International Conference on Parallel and Distributed Information Systems*. Sept. 1994, IEEE Computer Society Press, 272 pp.
18. H-J. Schek, A. Sheth, and B. Czjedo (Eds.), *Proceedings of the 3rd RIDE International Workshop on Interoperability in Multidatabase Systems (RIDE IMS-93)*. Vienna, Austria, Apr. 19–20, 1993, IEEE Computer Society Press, 279 pp.
19. Y. Kambayashi, M. Rusinkiewicz, and A. Sheth (Eds.). *Proceeding of the 1st International Workshop on Interoperability in Multidatabase Systems*. Kyoto, Japan, Apr. 1991, IEEE Computer Society Press, 370 pp.
20. A. Sheth (Ed.). *Proceedings of the Workshop on Management of Interdependent Data in Bellcore and BCCS*. Bellcore, Sept. 1990.

## **Editorship of Special Issues of Journals and Technical Society Magazines, Dagstuhl (most with introductions/state-of-the-art reviews)**

1. S. Gustafson and A. Sheth (Ed.) “Web of Things.” *Computing Now*, Vol. 7, no. 3, Mar. 2014, IEEE Computer Society ([online](http://www.computer.org/portal/web/computingnow/archive/march2014)).
2. A. Sheth, P. Barnaghi, M. Strohmaier, R. Jain, S. Staab (Eds.). [*Physical-Cyber-Social Computing (Dagstuhl Reports 13402)*](http://drops.dagstuhl.de/opus/frontdoor.php?source_opus=4424)*, Dagstuhl Reports*, Vol. 3, no.9, pp. 245-263, Schloss Dagstuhl--Leibniz-Zentrum fuer Informatik, 2013.
3. G. T. Lakshmanan, F. Curbera, J. Freire, and A. Sheth (Eds.) (Guest Editors). “[*Introduction: Provenance in Web Applications*](http://www.computer.org/portal/web/csdl/doi/10.1109/MIC.2011.9).” *IEEE Internet Computing*, Vol. 15, no. 1, Jan./Feb. 2011, pp. 17-21, doi:10.1109/MIC.2011.9.
4. D. Benslimane, S. Dustdar, A. Sheth. “Services Mashups: The New Generation of Web Applications.” *IEEE Computer Society*. Sept./Oct. 2008, pp. 13-15.
5. D. Benslimane, S. Dudstar, and A. Sheth (Eds.), special issue: Service Mashups*, IEEE Internet Computing*, 2008.
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](http://computer.org/portal/pages/dsonline/2007/10/w5gei.xml)*, IEEE Internet Computing* 11 (no. 5), Sept.–Oct. 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), Apr. 2005.
9. R. Meersman and A. Sheth (Eds.), special issue: Semantic Web, Database Management and Information Systems, *ACM SIGMOD Record* 32(4), Dec. 2002, pp. 10–70.
10. O. and A. Sheth (Eds.), special section, ACM SIGMOD Record 28 (no.1), Mar. 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(1), Jan. 1996, pp. 1–63.
12. W. Klas and A. Sheth (Eds.), special issue: Metadata for Digital Media, *ACM SIGMOD Record* 24 (4), Dec. 1994, pp. 19–71.
13. A. Sheth (Ed.), special issue: Semantic Issues in Multidatabase Systems, *ACM SIGMOD Record* 20(4), Dec. 1991, pp. 5–80.

# Recognition, Outstanding Achievements and Honorary Appointments

1. Programme External Assessor for the Bachelor of Science (Bioinformatics), University of Malaysia, six years starting 2013.
2. **Trustee’s Award** for Faculty Excellence,2010 Wright State University. 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. As the Kno.e.sis Center’s Director, on Feb. 19, 2010 Ted Strickland, then 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 Nov. 13, 2005 by IEEE Board of Directors with citation “for contributions to information integration and workflow management.” Class of 2006.
5. With an **h-index of 87 and ~ 30,000 citations** (as of 02/2015), placed among the 100 most highly cited authors in computer science, placed 1st among top authors in World Wide Web (10 year impact) and placed 20th among top authors in databases (all years impact). [(A review of Sheth's publication citations record along with examples of Sheth's top-cited publications in several journals and conferences.](http://knoesis.org/amit/publications/index.php?page=0)) Highlights include: Sheth-Larson 1990 (with over 3,000 citations) is the all-time most cited paper in information integration, second most cited paper in distributed databases, and one of the top five most cited papers in the field of databases; Georgakopoulos-Hornick-Sheth (with over 2,000 citations) is one of the most cited paper in the area of workflow management. At least 76 papers have more than 100 citations each.
6. International Scientific Advisory Committee (BISCSE 2005): Forging New Frontiers, 40th of Fuzzy Pioneers (1965–2005), Berkeley CA, Nov. 2–6, 2005.
7. 2004 IBM Faculty Award, Mar. 2004.
8. UGA Career Center Recognition/Award, Sept. 2002. Awarded based on post-graduation student surveys for “greatly contributing to the career development of UGA students.”
9. Patent co-inventor (Sheth, Gomadam, and Nagarajan). “Methods and Systems for Analysis of Real-Time User-Generated Text Messages.” (Patent application number 13/028,397), Feb. 16, 2011.
10. Patent co-inventor (Sheth, Avant, and Bertram). “System and Method for Creating Semantic Web and Its Applications in Browsing, Searching, Profiling, Personalization and Advertisement.” (Patent application number 6,311,194), Oct. 30, 2001.
11. Patent co-inventor (Marcus, Shah, Kshitij, Sheth, Shklar, Surak, Thatte). “Method and system for providing uniform access to heterogeneous information.” (Patent publication number WO 1997015018 A1), Apr. 24, 1997 (Priority date: Oct 16, 1995).
12. 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.” (Patent application number 5,241,675), Aug. 31, 1993.
13. Advisory Board, Coca-Cola Center for Marketing Studies, Terry College of Business, 2002–2003.
14. International Advisory Board, Internet Information Retrieval Research Center (IRC), Hankuk Aviation University, Korea, 2001–2002.
15. Board of Directors, Healthcare Open Systems & Trials (HOST) Consortium, 1995–1999.
16. Member of the two-person International Advisory Board, TARA Project, University of Tsukuba, Japan. 1994–1996.
17. Selected and served as an ACM Lecturer, 1991–1992.  Again for 1992–1993.
18. Outstanding Paper Award (co-author),  *7th International Conference on Data Engineering*, Kobe, Japan, Apr. 1991.
19. Six Recognition of Service Awards/Certificates of Appreciation: from *IEEE Technical Committee on Data Engineering* and the *IEEE Computer Society* (1989, 1990, 1991, 1992), from *IEEE Technical Community on Services Computing* (2004), from *ACM* (1993).
20. 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, Nov. 1993, and the Bellcore Achievement Award, 1989.
21. Board of Advisors, Indiana Center for Database Systems, 1991–1993.
22. Award from the Federal Computer Conference in recognition of contributions, Apr. 1989.
23. Best Paper Award (co-author) Computer Networking Symposium, 1984.
24. National Merit Scholar, Government of India, 1975.

# Professional or Scholarly Activities

From ideas and 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 while walking and brainstorming with students or partners, then lead to a series of activities that typically involve:

* Bringing resources (which usually takes the form of 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 (which often lends itself to an open source tool(s) and datasets, licensed technologies and patents, operationally deployed applications and software, or commercial products and services).

Below is a brief, incomplete list of some of my **activities that have gone from industry or academic research to the real world**. I would be remiss not to point out that these activities are 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 indicate out more contributors).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name/Years** | **Brief Technical Description**  **(Key Collaborator and/or Contributor)** | **Form of Real-world Use (Key contributor)** | **More Information: Publications and/or Presentations (Representative)** | |
| ezCAC, ezCDI, ezFIND:  2010-Present | * A Semantic Clinical Natural Language Understanding Engine being developed as part of collaborative research project funded by [ezDI](http://ezdi.us) at Kno.e.sis. | * [ezCAC released at AHIMA 2013](https://semanticweb.com/help-healthcare-mapping-unstructured-clinical-notes-icd-10-coding-schemes_b40775#more-40775) | * Paper: BIBM12 |
| Twitris:  2009-Present | * [Twitris- a System for Collective Social Intelligence](http://wiki.knoesis.org/index.php/Twitris) * [Demo](http://twitris.knoesis.org) | * Commercial version completed in Dec. 2013; business development ongoing. | * Patent published * Book chapter: ESNAM 2014 * Paper: WISE 2009 * Demo paper: ISWC 2009, ISWC 2010 |
| [Scooner](http://wiki.knoesis.org/index.php/Scooner):  2008-2011 | * Ontology/background knowledge support Semantic Browsing of Biomedical Literature with focus on [human performance and cognition](http://wiki.knoesis.org/index.php/Human_Performance_and_Cognition_Ontology) (C. Thomas, R. Kavuluru). | * Near production quality tool deployed at Air Force Research Lab’s Human Performance Directorate for biologists doing research in human performance and cognition. | * Paper: [SIGHIT12](http://knoesis.wright.edu/library/resource.php?id=1576) * [Demo](http://knoesis.wright.edu/library/demos/scooner-demo/) |
| 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 grew, we developed MediaAnywhere, a semantic-faceted search engine which exploited domain specific ontologies with automatically aggregated background knowledge and disambiguated (somewhat similarly to GKB) with automatic semantic annotation of textual and media content. * Search was followed by semantic browsing, connecting the dots and more focused application build over semantic technology. * More details: [System and method for creating a semantic web and its applications in browsing, searching, profiling, personalization and advertising](http://knoesis.wright.edu/library/resource.php?id=843), 2000-2001). * Taalee was the first VC funded software/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. | * Licensed VideoAnywhere to found VC funded Taalee (1999). We initially developed the MediaAnywhere Faceted Semantic Search Engine for broadband content on Web during 1999-2001 * Example customers: [Voquette](http://www.internetnews.com/ec-news/article.php/472721/Taalee+Inks+Deal+with+Voquette.htm), [Redband Broadcasting](http://www.thefreelibrary.com/Taalee+Announces+Pioneering+Semantic+Search+for+Digital+Media+Markets.-a062108738http:/www.thefreelibrary.com/Taalee+Announces+Pioneering+Semantic+Search+for+Digital+Media+Markets.-a062108738)). * Upon merger with Voquette (2002), we developed SCORE, a semantic web application development platform and digital content delivery platform * Also developed apps like Passenger Threat Assessment; customers include a pharmaceutical company and NASA). * Upon merger with Semagix (2004), we develop FREEDOM, and focused on selling vertical industry applications, with biggest success in 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 were still employees as of 2012. * Roles: Taalee: Founder, COB, CEO; Voquette: Co-founder, Exec.VP; Semagix: SrVP-all R&D, later Chief Scientist. | * Product/System papers: [IC02](http://knoesis.wright.edu/library/resource.php?id=810), [SEE02](http://knoesis.wright.edu/library/resource.php?id=00113) * Application papers: * [CIKM02](http://knoesis.wright.edu/library/resource.php?id=815), [IASW05](http://knoesis.wright.edu/library/resource.php?id=00097), [SAI06](http://knoesis.wright.edu/library/resource.php?id=00082) * Presentations: [2000Keynote](http://knoesis.wright.edu/library/resource.php?id=735), * [2001Keynote](http://www.slideshare.net/apsheth/net-objectdays2001-upload), [2003Keynote](http://knoesis.wright.edu/library/resource.php?id=00039) * (Probably the first keynotes on SW and also on commercial SW products and/or services.) |
| ASEMR:  2005-Present | * 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](http://www.w3.org/2005/04/swls/) 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](http://knoesis.wright.edu/library/resource.php?id=00004) * [Demo](http://knoesis.org/showcase/asemr), [video](http://videolectures.net/iswc06_lathem_asemr/), [OpenClinical](http://www.openclinical.org/dm_asemr.html), [SWLS](http://www.w3.org/2005/04/swls), [LSDIS](http://lsdis.cs.uga.edu/projects/asdoc) |
| 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 echochardiologists at the Medical College of Georiga, I led development of the first of its kind system described as the “Low-Cost Web-Based Tool for Pediatric Echocardiographic Consultation.” | * Used in blind trials by pediatric echochardiologists to compare against traditional store-and-forward method (in which a rural clinic sends a tape by overnight mail). * Trial successfully proved that the Web based system provided statistically equivalent or better results (at much lower cost, with higher convenience and speed). | * Paper (that reports the evaluation): [Clinical Pediatrics 2003](http://knoesis.wright.edu/library/resource.php?id=00173) |
| Course Approval Process Automation (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 on UGA campus by any faculty or staff involved in proposing new courses or changes to the courses, and processing and approval of the proposals. * In first quarter of use, approximately 6000 courses were processed. * My lab developed and maintained the system for the first year; now has been transferred to the VPAA's office. * CAPA system has been operational since 1997. |  |
| CareWeb:  1996-1988 | * An unintended outgrowth of collaboration that began as part of NIST’s Healthcare Information Integration Technology initiative. * Funded by the Georgia Division of Family and Children Services. * Involved early adoption of Web technologies for this field. | * CareWeb, a Web resource developed in collaboration with [Medical College of Georgia](http://www.mcg.edu/) to support health information and education needs of under-served populations. |  |
| InfoHarness:  1993-2000 | * InfoHaress was very early in adding metadata to heterogeneous data (documents of different formats, source code, etc.). * Supported browser-based Web search (i.e., attributed-based or faceted search) of 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 in 1995 (Kshitij Shah). * Remained 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 limiting it to telco apps. | * InfoHarness early system: [WWW2004](http://knoesis.wright.edu/library/resource.php?id=00278), [CAiSE95](http://knoesis.wright.edu/library/resource.php?id=00275); Commercial version: [IC99](http://knoesis.wright.edu/library/resource.php?id=00245) |
| METEOR:  1990-1994  METEOR2:  1995-1999 | * 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 implementations: (1) WebWork (John Miller), one of the earliest web-based WfMS, and (2) ORBWork (Krys Kochut), one of the earliest CORBA-based truly distributed workflow management systems. * Note: METEOR2 was followed by a semantic Web Services version, but did not have commercial applications: 2002-2006). | * 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 commercial version termed METEOR Enterprise Application System (EAppS), which was sold to Bellcore, MCC, and Boeing. * EAppS was used in building applications such as Neonatal Clinical Pathways. | * METEOR theory: [VLDB93](http://knoesis.org/library/resource.php?id=1542), METEOR system: [DAPD95](http://www.google.com/url?q=http%3A%2F%2Fknoesis.org%2Flibrary%2Fresource.php%3Fid%3D00254&sa=D&sntz=1&usg=AFQjCNFqrqYZl30ocud6MXmjlgDNCOE5Iw), METEOR app: [VLDB96](http://knoesis.org/library/resource.php?id=00271), [DAPD03](http://knoesis.wright.edu/library/resource.php?id=00185) * METEOR2 ORBWork Research: [JDB96](http://knoesis.wright.edu/library/resource.php?id=00252), [InfoSys97](http://knoesis.org/library/resource.php?id=1543); ORBWork commercial: CompStr99; WebWork: [JIIS98](http://knoesis.wright.edu/library/resource.php?id=00247) |
| BERDI:  1989-1992 | * BERDI was a practical, graphical schema integration tool. * Followed the [earlier “academic” prototype](http://knoesis.org/library/resource.php?id=00288) that was probably the first schema integration tool developed in US * Benefited from rapidly developing graphical interface technologies. | * Used internally in Bellcore to integrate schemas associated with large legacy applications, some of which were transitioning from IMS to RDB technology. | * Bellcore-TR |

Below is a partial list providing basic background regarding some other prototypes/systems related to those mentioned above. These items, however, did not find major commercial or real-world applications but rather had implications primarily for in-lab applications:

1. InfoQuilt (1998-2002, UGA).
2. VisualHarness/ZEBRA (1996-2000, UGA): reincarnated InfoHarness for integrated keyword, attribute, and content (e.g. image-related content features like color, structure, composition, and texture) of text and images. Used image processing engine from Virage Inc. (Ramesh Jain, Bradley Horowitz).
3. **GradWeb** (1996-2000, UGA): a system which overhauls the graduate school’s 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 current students. Application materials are available electronically and applications can be submitted electronically.
4. OBSERVER (1994-1998, UGA).
5. CaTCH (Collaborative TeleConsulting for Health).

Also see [Open Source](http://knoesis.wright.edu/opensource) for tools and data sets, and standards activities

## **Interviews and Biographical Profiles**

1. “[How Twitter community reacted over Union Budget 2014](http://news.oneindia.in/feature/budget-2014-what-twitter-can-tell-us-1484788.html).” [*OneIndia News*](http://oneindia.com/), Jul. 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](http://www.theatlantic.com/international/archive/2014/04/indias-briefcase-sized-voting-machines/360554/).” *The Atlantic*, Apr. 15, 2014.  
   (Penultimate paragraph covers my views and interpretation of data we saw.)
3. “[How big data has changed India elections](http://j.mp/OMrCGS).” *CNBC*, Apr. 10, 2014.  
   (Mentions actionable information my group has produced using [Twitris](http://j.mp/In2014) and its actual use in activities on the ground associated with India’s 2014 elections.)
4. “[Analysis: See what Twitter community thinks of BJP, Congress, AAP](http://news.oneindia.in/india/twitter-responses-show-bjp-getting-positive-sentiments-8-sta-1425916.html).” [*OneIndia News*](http://oneindia.com/), Apr. 10, 2014.  
   (Detailed analysis of the view of the three main parties in fifteen important states also credited: my student, Shreyansh Bhatt.)
5. “[India's social media election battle](http://www.bbc.com/news/world-asia-india-26762391).” *BBC News*, Mar. 30, 2014.  
   (Includes coverage of [our analysis](http://analysis.knoesis.org/indiaelection/) of India’s 2014 election using Twitris.)
6. “[Survey: Kejriwal lost popularity after Gujarat visit ahead of election](http://news.oneindia.in/ahmedabad/election-kejriwal-lost-popularity-after-gujarat-visit-twitter-survey-1409565-lse.html).” [*OneIndia News*](http://oneindia.com/), Mar. 11, 2014.   
   (Based on our analysis of a specific event in India’s 2014 election using [Twitirs](http://analysis.knoesis.org/indiaelection/); also credited: my student Shreyansh Bhatt.)
7. “[Twitter's top swear words revealed: Researchers find one in 13 tweets contains a curse](http://www.dailymail.co.uk/sciencetech/article-2564005/How-swear-Twitter-LOT-Researchers-reveal-one-13-tweets-contains-curse.html).” *Daily Mail*, Feb. 20, 2014.   
   (A media coverage on our [CSCW 2014 paper](http://wiki.knoesis.org/index.php/Cursing_in_English_on_Twitter); also credited: my student, Wenbo Wang.)
8. “[#Cursing Study: 10 Lessons About How We Use Swear Words on Twitter](http://time.com/8760/cursing-study-10-lessons-about-how-we-use-swear-words-on-twitter/).” [*Time Magazine*](http://time.com/), Feb. 19, 2014.  
   (Media coverage on our [CSCW 2014 paper](http://wiki.knoesis.org/index.php/Cursing_in_English_on_Twitter); also credited: my student, Wenbo Wang.)
9. “[140 Characters Of F\*ck, Sh!t, and @ss: How We Swear On Twitter](http://www.fastcoexist.com/3026596/140-characters-of-fck-sht-and-ss-how-we-swear-on-twitter).” *Fast Company*, Feb. 19, 2014.  
   (Media coverage on our [CSCW 2014 paper](http://wiki.knoesis.org/index.php/Cursing_in_English_on_Twitter); also credited: my student, Wenbo Wang)
10. “[Mapping Unstructured Clinical Notes to ICD-10 Coding](http://semanticweb.com/help-healthcare-mapping-unstructured-clinical-notes-icd-10-coding-schemes_b40775).” [*SemanticWeb*](http://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](http://www.ezdi.us/); also credited: my student: Sujan Perera.)
11. “[Are we missing out on tech-aided disaster management in Uttarakhand?](http://www.thehindu.com/opinion/blogs/blog-datadelve/article4923705.ece)” *The Hindu*, Jul. 17, 2013.  
    (Highlights challenges in using tech to support the relief and rebuilding effort; also credited, my student Hemant Purohit.)
12. “[Using crisis mapping to aid Uttarakhand](http://www.thehindu.com/sci-tech/technology/gadgets/using-crisis-mapping-to-aid-uttarakhand/article4854027.ece).” *The Hindu*, Jun. 27, 2013.  
    (Data resulting from coordination done by Kno.e.sis was used by Google Crisis Maps, which helped crisis response planners; also credited: my student, Hemant Purohit.)
13. “[Twitris: Taking Crisis Mapping to the Next Level](http://techpresident.com/news/wegov/24082/twitris-taking-crisis-mapping-next-level).” *Tech President*, Jun. 24, 2013.  
    (In-depth of use of Twitris in crisis mapping, disaster response, political movement, and campaigns; also credited: my student, Hemant Purohit.)
14. “[Election 2012: The Semantic Recap](http://semanticweb.com/election-2012-the-semantic-recap_b33278).” [*SemanticWeb*](http://semanticweb.com/), Nov. 8, 2012.  
    (Reviews how well Twitris did in analyzing and predicting the 2012 US Presidential Election and examines the deeper insights semantic web technology enables.)
15. “[Could Twitris+ Be Used for Disaster Response?](http://irevolution.net/2012/09/11/twitris/)” *iRevolution*, Sept. 11, 2012.  
    (The influential blog discusses Twitris' ability to provide insights and situational awareness for emergency response aid, reputation management etc. Additional credits: my student, Hemant Purohit.)
16. “[Picking the President: Twindex, Twitris Track Social Media Electorate](http://semanticweb.com/picking-the-president-twindex-twitris-track-social-media-electorate_b31249).” [*SemanticWeb*](http://semanticweb.com/), Aug. 3, 2012.  
    (Comparison of Twitris with other tools monitoring and analyzing US Presidential Elections 2012.)
17. “[Semantic App Helps Researchers Understand Prescription Drug Abuse](http://semanticweb.com/semantic-app-helps-researchers-understand-prescription-drug-abuse_b29788).” [*SemanticWeb*](http://semanticweb.com/), Jun. 12, 2012.  
    (Kno.e.sis' PREDOSE platform supports prescription drug abuse epidemiology; also credited: my student, Delroy Cameron, and my colleague, Raminta Daniulaityte.)
18. “[Web App Analyzes Tweets in Real Time for a Record of Historic Events](http://mashable.com/2012/02/17/twitris/).” [*Mashable*](http://mashable.com/), Feb. 17, 2012  
    (Reviews Twitris' monitoring and 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](http://semanticweb.com/twitris-social-media-analysis-tackles-occupy-wall-street-2012-elections_b26596).” [SemanticWeb](http://semanticweb.com/), Feb. 12, 2012.

(Review of Twitris' social media analysis of social movements such as Occupy Wall Street and India Against Corruption.)

1. “[Fund nurtures ideas that can be potent job engines](http://www.daytondailynews.com/blogs/content/shared-gen/blogs/dayton/opinion/entries/2010/04/19/).” *Dayton Daily News,* Apr. 19, 2010.

(Piece written by David R. Hopkins, the President of Wright State University.)

1. “[HP selects WSU professor as research award recipient](http://www.daytondailynews.com/business/hp-selects-wsu-professor-as-research-award-recipient-182611.html).” *Dayton Daily News*, Jun. 29, 2009.
2. “[WSU Developing New Web Technologies](http://knoesis.wright.edu/news/articles/DDN4-16-07Shetharticle.pdf).” *Dayton Daily News*, Apr. 16, 2007.
3. “[New Ground in Web technology affecting health care](http://www.huliq.com/16960/new-ground-in-web-technology-affecting-health-care).” *HULIQ*, Mar. 29, 2007
4. Wright State researchers pioneer new ground in Web technology affecting health care, terrorism, defense, and financial services.” *WSU Communications & Marketing*. Mar. 27, 2007.
5. “[NSA Datamining Social Media Sites, O'Reilly Radar](http://www.scribd.com/doc/214405732/WWW2006-Semantic-Association-Paper-O-Reilly-Radar-June-2006).” Jun. 9, 2006.  
   (One of the several media stories/articles that was kicked off by our [WWW 2006 paper](http://knoesis.wright.edu/library/resource.php?id=00031) on semantic analytics on social networks.)
6. “A Mission Possible: Transforming UGA Research Discoveries into New Technology Companies.” University of Georgia, Jan. 2006, p.7.

(Commercialization profile for Semagix.)

1. “[Apps Make Semantic Web a Reality](http://www.scribd.com/doc/186795209/Apps-Make-Semantic-Web-a-Reality-2005).” *SD Times*, Apr. 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.)
2. “[Semagix CTO will Present Strategies for Achieving the Potential of the Semantic Web through an Ontology-Based SmartData Approach](http://www.prnewswire.com/news-releases/semagix-to-speak-at-two-sessions-at-kmworld--intranets-2004-74995142.html).” *PRNewswire*, Oct. 26, 2004.  
   (Outline 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.)
3. [“An Interview with Amit Sheth: The Information Systems Perspective on Semantic Web Research,”](http://lsdis.cs.uga.edu/%7Eamit/activities/files/Sheth-SIGSEMIS-interview.pdf) in the Bulletin of AIS Special Interest Group on Semantic Web and Information Systems, volume 1, issue 1, Apr. 2004. [(copy)](http://lsdis.cs.uga.edu/%7Eamit/Sheth-SIGSEMIS-interview.pdf)
4. “[Semagix' CIRAS - A 'Trend-Setting Product of 2003'; Recognition of Innovation in Knowledge Management](http://www.scribd.com/doc/186797344/Semagix-CIRAS-A-Trend-Setting-Product-of-2003-Recognition-of-Innovation-in-Knowledge-Management).” *Business Wire*, Jul. 21, 2003.  
   (Discusses the technology and product that uses Semantic Web technology for Financial Services apps; product developed by my team at Taalee/Voquette/Semagix based technology described in [this patent](http://j.mp/SW-patent).)
5. [“When Academicians Become Entrepreneurs](http://lsdis.cs.uga.edu/%7Eamit/activities/files/SandpaperMayAcademics2003.pdf).” *Sandpaper*, May 2003.

(A profile of Dr. Amit Sheth.)

1. [Athens Herald on Founding Taalee, Jun. 10, 2001.](http://knoesis.wright.edu/library/FoundingTaalee.pdf)
2. “[Streaming Semantic Search Engine That Reads Your Mind](http://www.scribd.com/doc/186600492/Streaming-Semantic-Search-Engine-That-Reads-Your-Mind-2000).” *Streaming Media World*, Aug. 10, 2000.   
   (Interview describing Taalee's Semantic Search Engine which used ontologies/knowledge base, similar to the use of knowledge graph by search engines in 2013.)
3. [“Interview: Amit Sheth on Workflow Technology](http://knoesis.org/resources/faculty/amit/Taalee-Seamtic-Search-Engine-Interview.pdf).” Sushil Jajodia. *IEEE Concurrency*, Apr.–Jun. 1998, pp. 21–23.
4. Interview discussing applications of the METEOR system in Healthcare, in *Research Reporter*, UGA, winter 1997, and in *Healthcare Informatics*.
5. Interviews discussing the future of Internet-related technologies and relevant research at UGA following broad-based talks, published in the *Economic Times*, Jan. 1995 (several editions), and the *Times of India* (several editions), Jan. 1996 (both of which are national newspapers in India with largest circulation in Business and General categories, respectively).
6. Biographical profiles published in a Gujarati book (1996) and an English (1997) book.
7. Technology Interviews: (a) discussing Semantic Web State of the Art in “[Apps Make Semantic Web a Reality](http://www.sdtimes.com/download/images/SDTimes123.pdf).” SD Times, Apr. 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, Jan. 1995 (several editions), and the Times of India (several editions), Jan. 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, Jul. 2007–. ISSN: 1386-2944
2. **Joint Editor-in-Chief** (with Ahmed Elmagarmid), *Distributed and Parallel Databases: An International Journal*, Springer, Jun. 2007–Present. ISSN: 0926-8782
3. **Editor-in-Chief**, *International Journal on Semantic Web and Information Systems (*[*IJSWIS*](http://www.idea-group.com/journals/details.asp?id=4625)*)*, Idea Group Publishing, 2005–Present.
4. **Series Editor** (with Ramesh Jain), *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*, 2008–2012.
8. **Member of the Editorial Board**, [*Journal on Web Semantics: Science, Services and Agents on the World Wide Web*](http://www.websemanticsjournal.org/index.php/ps), 2003–Present.
9. **Member of the Editorial Board** (acting Editor-in-Chief from 9/94 to 3/95), *Journal on Distributed and Parallel Databases*, 1992–Present.
10. **Member of the Editorial Board**, *International Journal of Intelligent and Cooperative Information Systems*, 1995–2013.
11. **Member of the Editorial Board**, *Information Systems: an International Journal*, 1993–2012.
12. **Member of the Editorial 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**

|  |  |  |
| --- | --- | --- |
| 2010 – 2013 | Co-Chair | W3C XG on Semantic Sensor Networking |
| 2004 – 2013 | Advisory Committee | World Wide Web Consortium (W3C) |
| 2011 - 2012 | Board of Directors | SSAIE Summer School on Service-Oriented Computing |
| 2005 – 2006 | Advisory Board | Semantic Web Challenge |
| 2004 – 2005 | Member | Semantic Web Services Initiative Architecture Committee ([SWSA](http://www.daml.org/services/swsa/)) |
| 2004 – Present | Faculty | Institute of Bioinformatics, UGA |
| 2004 | Faculty | Biomedical and Health Science Institute, UGA |
| 1996 – 1999 | Advisor | SIGGROUP |
| 1988 – Present | Associate Editor | SIGMOD Record |

## **Industry Courses and Workshops**

1. “Semantic Web and Semantic Web Services.” Professional course, University of Madeira. Funchal, Portugal, Jun. 16–18, 2005. ([More information](http://lsdis.cs.uga.edu/courses/madeira).)
2. “Mysteries of Metadata.” [*Content World 2001*](http://www.contentworld.com/2001conference/2001con_pro.html). 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, Aug. 12–14, 1996. (3 days.)

## **Technical Meetings (Conferences, Workshop) Organization**

|  |  |  |
| --- | --- | --- |
| **Oct. 2015** | **Advisor** | 1st Joint International Workshop on Semantic Sensor Networks and Terra Cognita ([SSN-TC 2015](http://event.cwi.nl/ssn-tc-2015/)) at ISWC205, October 11, 2015, Bethlehem, PA. |
| **Oct. 2014** | **General Co-Chair** | **2nd International Workshop on the Internet of Things**  **(C-IoT 2014) at CollabCoM2014** |
| Aug. 2011 | **Co-Chair** | Mining Data Semantics Workshop ([MDS 2011](http://vivo-onto.slis.indiana.edu/MDS2011/)) |
| Jul. 2011 | **Director** | Summer School on Service Oriented Computing ([SummerSoc](http://www.summersoc.eu/)) |
| May 2011 | **Advisory Committee** | International Conference on Web Intelligence, Mining and Semantics (WIMS 2011) |
| **Nov. 2010** | **Advisor** | 3rd International Workshop on Semantic Sensor Networks ([SSN10](http://www.easychair.org/conferences/conference_change_yes.cgi?a=p003f3307ac0;id=28176)) |
| Sept. 2010 | **Co-Organizer** | **1st** International Workshop on Traceability and Compliance of Semi-Structured Processes ([TC4SP2010](http://cgi.cs.indiana.edu/%7Edsiweb/tc4sp10/index.html#5)) at BPM2010 |
| **Jan. 2010** | **Co-Organizer** | [Semantic Challenges in Sensor Networks](http://www.dagstuhl.de/de/programm/kalender/semhp/?semnr=10042) |
| **2008** – **2010** | **Co-Chair** | [W3C Semantic Sensor Networks Incubator Group](http://www.w3.org/2005/Incubator/ssn/) |
| **Nov. 2009** | **Program Co-Chair** | International Workshop on Community-Based Evolution of Knowledge-Intensive Systems ([COMBEK'09](http://www.onthemove-conferences.org/index.php?option=com_content&view=article&id=137&Itemid=172)) |
| **Oct. 2009** | **Steering Committee Chair, Program Committee Member** | [2nd International Workshop on Semantic Sensor Networks](http://marinemetadata.org/events/ssn09-workshop)  at 8th International Semantic Web Conference ([ISWC 2009](http://iswc2009.semanticweb.org/)) |
| **May 2009** | **Steering Committee Chair, Program Committee Member** | [1st International Workshop on the role of Semantic Web in Provenance Management](http://wiki.knoesis.org/index.php/SWPM-2009) at 8th International Semantic Web Conference ([ISWC 2009](http://iswc2009.semanticweb.org/)) |
| **May 2009** | **Co-Organizer** | [Sensor Web Enablement](http://knoesis.wright.edu/workshops/swe/) |
| **Nov. 2008** | **Scientific Steering Committee, Organizing Committee** | International Workshop on Community-Based Evolution of Knowledge-Intensive Systems ([COMBEK '08](http://www.cs.rmit.edu.au/fedconf/index.html?page=combek2008cfp)) |
| **Oct. 2008** | **Program Committee Chair** | 7th International Semantic Web Conference ([ISWC 2008](http://iswc2008.semanticweb.org/)) |
| **Sept. 2008** | **Steering Committee Chair** | Advances in Semantics for Web Services 2008 ([semantics4ws 2008](http://knoesis.org/workshops/bpm2008_semantics4ws.html)) |
| Jul. 2008 | **Steering Committee** | 2nd IEEE International Conference on Semantic Computing (ICSC 2008)) |
| **Apr. 2008** | **Steering Committee** | 2nd International Workshop on Web Service Composition and Adaptation ([WSCA-2008](http://www.confhub.com/conf.php?id=25)) at 6th IEEE International Conference on Services Computing ([SCC-2008](http://conferences.computer.org/scc/2008/) |
| **Apr. 2008** | **Co-organizer** | WWW08 International Workshop on Context Enabled Source and Service Selection, Integration, and Adaptation ([CSSSIA 2008](http://www.cs.adelaide.edu.au/%7Ecsssia08/o_com.html)) |
| **Mar. 2008** | **Co-organizer** | Association for the Advancement of Artificial Intelligence ([AAAI](http://plattformen.fhnw.ch/aibr2008/index.php)) 2008, Spring Symposium. |
| Sept. 2007 | **Co-organizer** | 2nd Workshop on Advances in Semantics for Web Services ([semantics4ws'07](http://events.deri.at/semantics4ws2007/)) at BPM 2007 |
| Jul. 2007 | **General Chair** | 4th International Workshop on Semantic Web for Services and Processes ([SWSP 07](http://events.deri.at/semantics4ws2007/)) at [IEEE International Conference on Web Services](http://www.icws.org/) |
| **Jul. 2007** | **Co-organizer** | 1st International Workshop on Web Service Composition and Adaptation ([WSCA-2007](http://www.cild.iastate.edu/wsca)) at [IEEE International Conference on Web Services](http://www.icws.org/) |
| **Feb. 2007** | **Co-Organizer** | [Autonomic Web Services: Dagstuhl Seminar 07061](http://www.dagstuhl.de/07061/) |
| **Nov. 2006** | **Industry Track Chair, Sponsorship Chair** | 5th International Semantic Web Conference |
| Sept. 2006 | **Program Co-Chair** | 4th International Conference on Business Process Management (BPM 2006) |
| Sept. 2006 | **General Chair** | 3rd International Workshop on Semantic and Dynamic Web Processes (SWDP2006) |
| Sept. 2006 | **Program Committee Chair** | 4th International Conference on Business Process Management ([BPM 2006](http://bpm2006.tuwien.ac.at/)) |
| Sept. 2006 | **Co-organizer, Program Committee Chair** | Advances in Semantics for Web Services Workshop ([semantics4ws'06](http://events.deri.at/semantics4ws2006/)) at BMP 2006 |
| Aug. 2006 | **Co-organizer** | SIG on Semantic Web and Information Systems (mini-track) at 12th Americas Conference on Information Systems |
| Jul. 2006 | **Program Co-Chair** | **AI-Driven Technologies for Services-Oriented Computing** (AAAI-06 Workshop) |
| Jul. 2006 | **Organization Committee** | International Workshop on Distributed Applications for B2B Integration ([DABI 2006](http://www.dme.uma.pt/jcardoso/Research/Conferences/DABI06/)) at 26th ICDC |
| Jun. 2006 | **Organizing Committee** | ESWC'06 Industry Forum Day Business Applications of Semantic Web technology |
| Apr. 2006 | **General Chair** | 3rd International Workshop on Semantic Web and Databases ([ICDE SWDB '06](http://lsdis.cs.uga.edu/swdb06/)) at ICDE 2006 |
| Apr. 2006 | **Program Committee Co-chair** | International Workshop on Semantics enabled Networks and Services (ICDE [SeNS 2006](http://lsdis.cs.uga.edu/SenS/)) at ICDE2006 |
| Mar. 2006 | **Co-organizer** | [Semantic Web meets eGovernment](http://www.imu.iccs.gr/sweg/index_files/Program.html) at AAAI Spring Symposium Series (SSS-06) |
| Dec. 2005 | **Co-chair** | Organization Committee, International Workshop in Dynamic Web Processes ([DWP 2005](http://lsdis.cs.uga.edu/projects/meteor-s/dwp2005/)) at ICSOC 2005 |
| Jul. 2005 | **Co-chair** | 2nd International Workshop on Semantic and Dynamic Web Processes ([SDWP 2005](http://dme.uma.pt/jcardoso/Research/Conferences/SDWP05/index.html)) |
| Sept. 2004 | **Co-organizer** | [Semantic Interoperability and Integration: Dagstuhl Seminar 04391](http://www.dagstuhl.de/04391/) |
| Sept. 2004 | **Program Co-Chair** | 2004 IEEE International Conference on Services Computing (SCC 2004) |
| Jul. 2004 | **Co-organizer** | 1st International Workshop on Semantic Web Services and Web Process Composition (SWSWPC 2004) |
| Mar. - Aril 2004 | **Co-organizer** | NASA Workshop on the Knowledge Integrating Virtual Iron Bird |
| Nov. 2003 | **Co-Chair** | UCGIS Homeland Security Workshop |
| May 2002 | **Co-Chair** | Workgroup on Semantic Web, NSF 2002 Workshop on Information and Data Management |
| Apr. 2002 | **Organizer/Chair** | NSF-EU Invitational Workshop on Database and Information Systems Research for Semantic Web and Enterprises |
| May 2001 | **Co-Organizer** | 2nd International Workshop on the Semantic Web (SemWeb 2001) at WWW10 |
| May 2000 | **Program Co-Chair** | IEEE conference on Advances in Digital Library |
| Aug. 1997 | **Co-Director** | NATO Advanced Study Institute on Workflow Systems and Interoperability |
|  |  |  |
| Jun. 1996 | **General (Co-)Chair** | 1st International Conference on Interoperable and Cooperative Information Systems (CoopIS '96) |
| May 1996 | **Program Chair, Organizing Committee Chair** | NSF workshop on Workflow and Process Automation: State-of-the-art and Future Directions |
| 1994 | **Program (Co-)Chair** | 3rd International Conference on Parallel and Distributed Information Systems |
| 1994 | **Program Vice Chair** | Technology and Applications Track, 10th International Conference on Data Engineering |
| Apr. 1993 | **Program (Co-)Chair** | 3rd RIDE-International Workshop on Interoperability in Multidatabase Systems |
| 1991 | **General Chair** | 1st International Conference on Parallel and Distributed Information Systems |
| 1990 | **Program Vice-Chair** | 6th IEEE International Conference on Data Engineering |
| 1990 | **Chair** | Workshop on Management of Interdependent Data in Bellcore and BCCS |
| 1989 | **Program Vice-Chair** | 5th IEEE International Conference on Data Engineering |

## **Other Organization Committee Roles (partial)**

|  |  |  |
| --- | --- | --- |
| Apr. 2014. | Advisory Committee Member | [Ontology Summit 2014](http://ontolog.cim3.net/OntologySummit/2014/) |
| **Oct. 2014** | **Advisor** | 5th Workshop on Semantics for Smarter Cities ([SCAS2014](http://blog.soton.ac.uk/s4sc/)) at ISWC 2014 |
| **Oct. 2014** | Advisor | 7th International Workshop on Semantic Sensor Networks (SSN2014) at ISWC2014 |
| **Oct. 2013** | Advisor | 6th International Workshop on Semantic Sensor Networks (SSN2013) at ISWC2013 |
| **Nov. 2012** | Advisor | 5th International Workshop on Semantic Sensor Networks (SSN2012) at ISWC2012 |
| Jul. 2008 | Steering Committee | 2nd International Workshop on Web Service Composition and Adaptation ([WSCA-2008](http://www.cs.uga.edu/~jfh/WSCA2008/)) a 6th IEEE International Conference on Services Computing (SCC-2008) |
| Mar. 2008 | Co-organizer | AI Meets Business Rules and Process Management at Association for the Advancement of Artificial Intelligence (AAAI 2008), Spring Symposium |
| Sept. 2007 | Co-organizer | 2nd Workshop on Advances in Semantics for Web Services (semantics4ws'07) at BPM 2007 |
| Jul. 2007 | General Chair | 4th International Workshop on Semantic Web for Services and Processes ([SWSP 07](http://events.deri.at/semantics4ws2007/)) at [IEEE International Conference on Web Services](http://www.icws.org/). |
| Jul. 2007 | Co-organizer | 1st International Workshop on Web Service Composition and Adaptation ([WSCA-2007](http://www.cild.iastate.edu/wsca)) at [IEEE International Conference on Web Services](http://www.icws.org/) |
| Feb. 2007 | Co-Organizer | [Autonomic Web Services: Dagstuhl Seminar 07061](http://www.dagstuhl.de/07061) |
| Nov. 2006 | Industry Track and Sponsorship Chair | International Semantic Web Conference |
| Sept. 2006 | General Chair | 3rd International Workshop on Semantic and Dynamic Web Processes ([SWDP2006](http://www.computer.org/csdl/proceedings/scw/2006/2681/00/2681xiii.pdf)) |
| Sept. 2006 | Co-organizer, Program Committee Chair | Advances in Semantics for Web Services Workshop (semantics4ws'06) at BMP 2006 |
| Aug. 2006 | Co-organizer | SIG on Semantic Web and Information Systems (mini-track) at 12th Americas Conference on Information Systems |
| Jul. 2006 | Organization Committee | International Workshop on Distributed Applications for B2B Integration (DABI 2006) at 26th ICDCS |
| Jun. 2006 | Organizing Committee | ESWC'06 Industry Forum Day Business Applications of Semantic Web technology |
| Apr. 2006 | General Chair | 3rd International Workshop on Semantic Web and Databases ([ICDE SWDB'06](http://lsdis.cs.uga.edu/swdb06/)) at ICDE 2006 |
| Mar. 2006 | Steering Committee | [Semantic Web Services Challenge 2006: Challenge on Automating Web Services Mediation, Choreography and Discovery](http://www.sws-challenge.org/) |
| Mar. 2006 | Co-organizer | [Semantic Web meets eGovernment](http://www.imu.iccs.gr/sweg/index_files/Program.html) Workshop at AAAI Spring Symposium Series (SSS-06) |
| Dec. 2005 | Co-chair, Organization Committee | International Workshop in Dynamic Web Processes ([DWP 2005](http://lsdis.cs.uga.edu/projects/meteor-s/dwp2005/)) at ICSOC 2005 |
| Jul. 2005 | Co-chair | 2nd International Workshop on Semantic and Dynamic Web Processes (SDWP2005) |
| Sept. 2004 | Co-organizer | [Semantic Interoperability and Integration: Dagstuhl Seminar 0 4391](http://www.dagstuhl.de/04391/) |
| Jul. 2004 | Co-organizer | 1st International Workshop on Semantic Web Services and Web Process Composition (SWSWPC 2004) |
| Mar. 2004 – Apr. 2004 | Co-organizer | NASA Workshop on the Knowledge Integrating Virtual Iron Bird |
| Nov. 2003 | Co-Chair | UCGIS Homeland Security Workshop |
| May 2002 | Co-Chair, Workgroup on Semantic Web | NSF 2002 Workshop on Information and Data Management |
| Apr. 2002 | Organizer/Chair | NSF-EU Invitational Workshop on Database and Information Systems Research for Semantic Web and Enterprises |
| May 2001 | Co-Organizer | 2nd International Workshop on the Semantic Web - SemWeb'2001 at WWW10 |
| Oct. 2002 | Panel Chair | Federated Conferences ODBASE/CooPIS 2002 |
| Oct. 2002 | Steering Committee | Science on the Semantic Web: Building the Next Generation of Environmental Information Systems |
| Feb. 1999 | Steering Committee Chair and founder | 1st ACM International Conference on Work Activity Coordination and Collaboration |
| Nov. 1996 | Panel Chair | 5th International Conference on Information and Knowledge Management (CIKM'96) |
| Sept. 1996 | Panel Co–Chair | 22nd International Conference on Very Large Data Bases |
| 1995 – Present | Founding Member, Executive Committee Member/Treasurer | International Foundation on Cooperative Information Systems |
| 1995 – Present | Steering Committee Member | International Conference on Parallel and Distributed Information Systems |
| Jun. 1995 | Panel Chair, Member of Organization Committee | 6th IFIP TC-2 Working Conference on Data Semantics (DS-6) |
| 1993 | Tutorial Chair | ACM SIGMOD Conference |
| 1988, 1991 | Tutorial Chair | 7th IEEE International Conference on Data Engineering |
| 1992 – Present | Secretary and Treasurer | IEEE CS TC on data engineering |
| Apr. 1991 | Publication Chair | 1st International Workshop on Interoperability in Multidatabase Systems (IMS ‘91) |
| 1988 – 2005 | Associate Editor | SIGMOD Record |
| 1988 | Tutorial Chair | 4th IEEE International Conference on Data Engineering |

## **Program Committee Member for International Conferences and Workshops (> 230)**

|  |  |
| --- | --- |
| Jul. 2015 | 4th International Conference on Data Management Technologies and Applications (DATA 2015) |
| May – Jun. 2015 | 12th European Semantic Web Symposium 2015 ([ESWC 2015](http://2015.eswc-conferences.org/)) |
| May 2015 | 9th International AAAI Conference on Weblogs and Social Media ([ICWSM-15](https://www.easychair.org/utils/wild.cgi?ws=3235320151091531389)) |
| **May 2015** | Special Issue on Dataset Profiling and Federated Search for Linked Data [(IJSWIS-DP2014](http://ijswis.org/?q=node/16)) |
| **May 2015** | 24th International World Wide Web Conference (WWW 2015) |
| **Mar. 2015** | 1st IEEE International Conference on Big Data Computing Service and Applications |
| **Oct. 2014** | **IFIP Workshop on Semantic Web & Web Semantics (SWWS) at** [OTM 2014](http://www.onthemove-conferences.org/index.php/swws2014) |
| **Oct. 2014** | **OnTheMove (**[OTM 2014](http://www.onthemove-conferences.org/index.php/swws2014)) |
| **Oct. 2014** | 13th International Semantic Web Conference ([ISWC2014](http://iswc2014.semanticweb.org/)) |
| Sept. 2014 | Workshop on Personal Data Analytics in the Internet of Things (PDA at IOT 2014) |
| Aug. 2014 | 2nd International Workshop on Internet of Things in Conjunction with CollaborateCom 2014 ([C-IOT 2014](http://cs.txstate.edu/~hn12/iot2014/)) |
| Jun. 2014 | 8th International AAAI Conference on Weblogs and Social Media |
| Jun. 2014 | 8th International Conference on Weblogs and Social Media ([ICWSM-14](http://icwsm.org/)) |
| **May 2014** | 11th European Semantic Web Symposium 2014 ([ESWC 2014](http://2014.eswc-conferences.org/)) |
| **May 2014** | 11th Extended Semantic Web Conference - EU Project Networking Session ([ESWC 2014 EU Projects](http://2014.eswc-conferences.org/program/eu-project-networking)) |
| **Apr. 2014** | 23rd International World Wide Web Conference (WWW 2014) |
| Feb. 2014 | AI Magazine Special Issue on Semantics for Big Data 2013 ([S4BD-SI 2013](http://stko.geog.ucsb.edu/s4bd2013/)) |
| Nov. 2013 | [Semantics for Big Data](http://stko.geog.ucsb.edu/s4bd2013/), [AAAI 2013 Fall Symposium](http://www.aaai.org/Symposia/Fall/fss13.php) |
| Sept. 2013 | [I-SEMANTICS 2013](http://i-semantics.tugraz.at/) |
| Sept. 2013 | [I-SEMANTICS 2013 Posters & Demos Track](http://i-semantics.tugraz.at/) |
| Jul. 2013 | 27th AAAI Conference on Artificial Intelligence ([AAAI-13](http://www.aaai.org/Conferences/AAAI/aaai13.php)) |
| Jul. 2013 | Tutorials at the Seventh International AAAI Conference on Weblogs and Social Media ([ICWSM-13](http://www.icwsm.org/2013/)) |
| Jul. 2013 | 7th International Conference on Weblogs and Social Media ([ICWSM-13](https://easychair.org/conferences/?conf=icwsm13)) |
| Jun. 2012 | IJSWIS Special Issue on Visualisation of and Interaction with Semantic Web Data |
| May 2013 | 1st International IFIP Working Conference on Value-Driven Social Semantics & Collective Intelligence ([VaSCo](https://sites.google.com/site/ifipvasco2013/)) |
| May 2013 | [Extended Semantic Web Conference](http://2013.eswc-conferences.org/program-committee) |
| May 2013 | [22nd International World Wide Web Conference](http://www2013.org/) |
| May 2013 | [2nd International Workshop on Real-Time Analysis of Social Streams](http://www.ramss.ws/2013/) |
| May 2013 | [24th ACM Conference on Hypertext and Social Media](http://ht.acm.org/ht2013/) |
| Feb. 2013 | International Journal on Semantic Web and Information Systems, Special Issue on Semantic Social Media Dynamics ([IJSWIS-SI-SSMD13](http://www.ijswis.org/?q=node/45)) |
| Dec. 2012 | 4th International Conference on Social Informatics ([SocInfo 2012](http://www.socinfo2012.com/)) |
| Nov. 2012 | [10th International Semantic Web Conference (ISWC 2012](http://iswc2012.semanticweb.org/program.html)) |
| Nov. 2012 | Industry Track, 11th International Semantic Web Conference (ISWC2012-Industry) |
| Nov. 2012 | [ISWC 2012 Journal Workshop Session](https://www.easychair.org/utils/wild.cgi?ws=11419337673783621396) |
| Oct. 2012 | [31st International Conference on Conceptual Modeling](http://islab.di.unimi.it/er2012/) (ER2012) |
| Oct. 2012 | 18th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2012) |
| Oct. 2012 | [Knowledge Engineering and Knowledge Management that Matters](http://www.conference.ie/Conferences/index.asp?Conference=186) |
| Jun. 2012 | [Data Integration in the Life Sciences 2012](https://sites.google.com/site/webdils2012/) |
| Jun. 2012 | [ACM Hypertext and Social Media Conference](http://www.ht2012.org/) |
| Jun. 2012 | [International Provenance and Annotation Workshop](http://www.ipaw.info/ipaw12/) |
| Jun. 2012 | [6th International Conference on Weblogs and Social Media](http://www.icwsm.org/2012/) |
| May 2012 | [Extended Semantic Web Conference](http://2012.eswc-conferences.org/) |
| Apr. 2012 | 21st International Conference on World Wide Web ([WWW 2012](http://www2012.org/)) |
| Dec. 2011 | IJSWIS Special issue on Mining Associations and Patterns from the Semantic Data |
| Oct. 2011. | 10th International Semantic Web Conference ([ISWC 2011](http://iswc2011.semanticweb.org/)) |
| Oct. 2011 | 4th International Workshop on Semantic Sensor Networks 2011 ([SSN11](http://research.ict.csiro.au/conferences/ssn/ssn11)). A Workshop of the 10th International Semantic Web Conference (ISWC 2011). |
| Jul. 2011 | **5th** International AAAI Conference on Weblogs and Social Media (ICWSM-11) |
| May 2001 –  Jun. 2011 | 8th Extended Semantic Web Conference ([ESWC 11](http://www.eswc2011.org/content/eswc-program-committee)) |
| Apr. 2011 | Workshop on Future of the Web for Collaborative Science ([HCLS](http://esw.w3.org/topic/HCLS/WWW2010/Workshop)) at WWW 2010 |
| Dec. 2008 | 3rd Asian Semantic Web Conference ([ASWC 2008](http://aswc2008.ait.ac.th/)) |
| **Jul. 2013** | **AAAI-13 Special Track on AI and the Web (AAAI-13 AIW)** |
| **Jul. 2013** | **ASME 2013 Summer Heat Transfer Conference (HT2013)** |
| **Jul. 2013** | **7th International AAAI Conference on Weblogs and Social Media (ICWSM-13)** |
| **May 2013** | **10th Extended Semantic Web Conference (ESWC 2013)** |
| **Nov. 2012** | **11th International Semantic Web Conference (ISWC 2012-Industry)** |
| **Oct. 2012** | **Knowledge Engineering and Knowledge Management 2012 (EKAQ 2012)** |
| **Oct. 2012** | **31st International Conference on Conceptual Modeling (ER 2012)** |
| **Jun. 2012** | **Data Integration in the Life Sciences 2012 (DILS 2012)** |
| **Jun. 2012** | **4th International Provenance and Annotation Workshop (IPAW 2012)** |
| **Jun. 2012** | **6th International AAAI Conference on Weblogs and Social Media (ICWSM-12)** |
| **May 2012** | **9th Extended Semantic Web Conference (ESWC 2012)** |
| **May 2013** | **Real-Time Analysis and Mining of Social Streams (RAMSS 2013)** |
| **May 2013** | 22nd International World Wide Web Conference ([WWW 2013](http://www2013.org/)) |
| Apr. 2012 | 21st International Conference on World Wide Web ([WWW 2012](http://www2012.org/)) |
| **Oct. 2011** | 10th International Semantic Web Conference ([ISWC 2011](http://iswc2011.semanticweb.org/chttp:/iswc2011.semanticweb.org/calls/research-papers/#c582alls/research-papers/)) |
| Oct. 2011 | 10th International Semantic Web Conference – Outrageous Ideas Track (ISWC2011-Outrageous-Ideas) |
| **Oct. 2011** | **4th International Workshop on Semantic Sensor Networks 2011 (SSN11), a workshop at 10th International Semantic Web Conference (ISWC 2011)** |
| Jul. 2011 | 5th International AAAI Conference on weblogs and Social Media ([ICWSM-11](http://www.icwsm.org/2011/cfp.php)) |
| **Jun. 2011** | **Workshop on Language in Social Media** [(LSM 2011)](http://research.microsoft.com/en-us/events/lsm2011/default.aspx) |
| **May 2001** –  **Jun. 2011** | [8th Extended Semantic Web Conference (ESWC 11)](http://www.eswc2011.org/content/eswc-program-committee) |
| Apr. 2011 | Workshop on Future of the Web for Collaborative Science ([HCLS](http://esw.w3.org/topic/HCLS/WWW2010/Workshop)) at [WWW 2010](http://www2010.org/www/). |
| **Mar. 2011** | [20th International World Wide Web Conference](http://www.www2011india.com/index.html) |
| **Feb. 2011** | **6th Conference Professional Knowledge Management** |
| Feb. 2011 | IEEE CogSIMA 2011 |
| **Jan. 2011** | [Workshop on Sensor-Enabled Situational Awareness](http://cert.ics.uci.edu/sesa2011/committees.html) **at 12th International Conference on Distributed Computing and Networking (ICDCN 2011)** |
| Nov. 2010 | 9th International Semantic Web Conference ([ISWC 2010](http://iswc2010.semanticweb.org/node/2)) |
| Sept. 2010 | 8th International Conference on Business Process Management ([BPM 2010](http://www.bpm2010.org/committees/program-committee/)) |
| Nov. 2010 | 3rd International Workshop on Semantic Sensor Networks 2010 ([SSN10](http://www.easychair.org/conferences/conference_change_yes.cgi?a=p003f3307ac0;id=28176)), a workshop of the 9th International Semantic Web Conference (ISWC 2010) |
| Aug. 2010 | 6th Conference on Prestigious Applications of Intelligent Systems ([PAIS](http://ecai2010.appia.pt/index.php?option=com_content&task=view&id=32&Itemid=54)) at ECAI 2010 |
| Jul. 2010 | 24th AAAI Conference on Artificial Intelligence ([AAAI 2010](http://www.aaai.org/Conferences/AAAI/aaai10.php)) |
| May 2010 | [4th International AAAI Conference on Weblogs and Social Media](http://icwsm.org/2010/index.shtml) |
| Apr. 2010 | 3rd CFP: The Future of the Web for Collaborative Science (FWCS2010) at WWW’10 |
| Dec. 2009 | [7th International Workshop on Middleware for Grids, Clouds and e-Science](http://mgc2009.lncc.br/) ([MGC2009](http://www.easychair.org/conferences/conference_change_yes.cgi?a=p003f3307ac0;id=16169)) at 10th International Middleware Conference 2009 |
| 2011 | [2011 IEEE Conference on Cognitive Methods in Situation Awareness and Decision Support](http://www.comsoc.org/tco/cogsima2011/) |
| Nov. 2009 | 28th International Conference on Conceptual Modeling ([ER 2009](http://www.inf.ufrgs.br/er2009/?p=pcommittee)) |
| Nov. 2009 | 2nd International Workshop on Modeling Mobile Applications and Services (M2AS’09) at 28th International Conference on Conceptual Modeling ([ER 2009](http://www.inf.ufrgs.br/ER2009/)) |
| Nov. 2009 | International Workshop on Community-Based Evolution of Knowledge-Intensive Systems ([COMBEK '09](http://www.onthemove-conferences.org/index.php?option=com_content&view=article&id=137&Itemid=172)) |
| Oct. 2009 | [3rd International Workshop on Web APIs and Services Mashups (Mashups ‘09)](http://www.mashup-oopsla.org/) |
| Oct. 2009 | [8th International Semantic Web Conference (ISWC 2009)](http://iswc2009.semanticweb.org/) |
| Oct. 2009 | 5th IEEE Workshop on Situation Management (SIMA 2009) at IEEE MILCOM 2009 |
| Sept. 2009 | Advanced Knowledge-Based Systems, [13th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems (KES 2009)](http://si.deis.unical.it/~cuzzocrea/KES2009) |
| Sept. 2009 | [Business Process Management Conference 2009 (BPM 2009)](http://www.bpm2009.org/) |
| Jun. 2009 | [1st International Workshop on the Semantic Sensor Web (SemSensWeb2009)](http://semsensweb.di.uoa.gr/) |
| **Apr. 2009** | [18th International World Wide Web Conference](http://www2009.org/calls/semdataweb.html) |
| Feb. 2009 | [3rd Asian Semantic Web Conference (ASWC 2008)](http://aswc2008.ait.ac.th/) |
| Dec. 2008 | [2nd International Workshop on Web APIs and Service Mashups](https://sites.google.com/a/icsoc-mashups.org/mashups-08-icsoc/CFP) (Mashups ’08) |
| Oct. 2008 – Nov. 2008 | [Multimedia 2008](http://www.kettering.edu/orgs/wms08/pc.html), 2nd International Workshop on the Many Faces of Multimedia Semantics. |
| Oct. 2008 | [7th International Semantic Web Conference (ISWC 2008)](http://iswc2008.semanticweb.org/) |
| Sept. 2008 | International Conference on Web Services (ICWS 2008) |
| Sept. 2008 | [10th International Conference on Visual Information Systems (VISUAL 2008)](http://www.dmi.unisa.it/visual08/call.htm) |
| Sept. 2008 | Advanced Knowledge-based Systems, Invited Session, [12th International Conference on Knowledge-based and Intelligent Information & Engineering Systems (KES 2008)](http://kes2008.kesinternational.org/) |
| Jun. 2008 | 5th European Semantic Web Conference (ESWC 2008 Ph.D. Symposium) |
| Apr. 2008 | [Semantic Web for Health Care and Life Sciences Workshop](http://www.w3.org/wiki/HCLS/WWW2008) (HCLS 2008) at 17th International World Wide Web Conference |
| Apr. 2008 | Semantic Web for Health Care and Life Sciences Workshop |
| Dec. 2007 | Workshop on Information Systems Economics (WISE 2007) |
| Nov. 2007 | 1st International Workshop on Networking for Distributed Knowledge Management ([NDKM '07](http://www.cs.rmit.edu.au/fedconf/index.html?page=ndkm2007cfp)) |
| Nov. 2007 | 3rd International IFIP Workshop on Semantic Web & Web Semantics (IFIP SWWS 2007) |
| Nov. 2007 | 6th International Semantic Web Conference and  2nd Asian Semantic Web Conference |
| Nov. 2007 | 1st Workshop Cyberinfrastructure: Information Management in eScience (CIMS) at ACM CIKM 2007 |
| Nov. 2007 | International Conference on Advances in Semantic Processing (SEMAPRO 2007) |
| Nov. 2007 | Workshop on Cyberinfrastructure for e-Science (CyIneS 2007) at IEEE/WIC/ACM Joint Conference on Web Intelligence and Intelligent Agent Technology |
| Sept. 2007 | Usage of Service Level Agreements in Grids Workshop at 8th  IEEE International Conference on Grid Computing (Grid 2007) |
| Sept. 2007 | [11th International Workshop on Cooperative Information Agents (CIA 2007)](http://www-ags.dfki.uni-sb.de/~klusch/cia2007/) |
| Jul. 2007 | 22nd National Conference on Artificial Intelligence: AAAI-based7 (Special track on Artificial Intelligence and the Web) |
| Jun. 2007 | 9th International Conference on e-Health Networking, Applications and Services |
| Jun. 2007 | 1st International Conference on Web Reasoning and Rule Systems |
| May 2007 –  Jun. 2007 | From Concepts & Prototypes to Practical Solutions, 1st International Workshop on Semantic Technology Adoption in Business (STAB'07) at ESTC 2007 |
| May 2007 | 16th International World Wide Web Conference (WWW2007) |
| May 2007 | [16th International World Wide Web Conference (WWW2007)](http://www2007.org/cfp-SW.php) |
| Nov. 2006 | 5th International Semantic Web Conference (ISWC 2006) |
| Sept. 2006 | 4th IEEE International Conference on Web Services |
| Sept. 2006 | 1st Asian Semantic Web Conference |
| Jul. 2006 | 21st National Conference on Artificial Intelligence (AAAI-06) |
| Jun. 2006 | [3rd Annual European Semantic Web Conference (ESWC2006)](http://www.eswc2006.org/) |
| May 2006 | 15th International World Wide Web Conference (WWW2006) |
| May 2006 | IEEE Intelligence and Security Informatics (ISI) Conference |
| May 2006 | IEEE International Conference on Granular Computing |
| Apr. 2006 | 22nd International Conference on Data Engineering |
| Apr. 2006 | 2nd International Workshop on Database Interoperability (InterDB 2006) |
| Dec. 2005 | 6th International Conference on Web Information Systems (WISE 2005) |
| Nov 2005 | 1st International Conference on Geospatial Semantics (GeoS 2005) |
| Nov. 2005 | 4th International Semantic Web Conference (ISWC 2005) |
| Oct. 2005 – Nov. 2005 | 4th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE) |
| Oct. 2005 | K-Cap Workshop on Integrating Ontologies |
| Sept. 2005 | IFIP Working Conference on Virtual Enterprises (PRO-VE '05) |
| Jul. 2005 | 2005 IEEE Service International Conference on Services Computing (SCC 2005) |
| Jul. 2004 | 3rd IEEE International Conference on Web Services |
| Jul. 2005 | 1st International Workshop on Contexts and Ontologies: Theory, Practice and Applications (an AAAI '05 Workshop) |
| Jun. 2005 | W3C Workshop on Frameworks for Semantics in Web Services |
| May 2005 | IEEE International Conference on Intelligence and Security Informatics (ISI-2005) |
| May 2005 | 14th International World Wide Web Conference (WWW 2005) |
| Apr. 2005 | 21st International Conference on Data Engineering |
| Apr. 2005 | 1st UK Young Researchers Workshop on Service Oriented Computing (YR–SOC) |
| Nov. 2004 | 2nd International Conference on Service Oriented Computing (ICSOC '04) |
| Nov. 2004 | 3rd International Conference on Semantic Web |
| Oct. 2004 | 1st International Workshop on Semantic Web Technologies in Electronic Business |
| Jul. 2004 | AAAI 2004 Workshop on Semantic Web Personalization |
| Jul. 2004 | IEEE International Conference on Web Services (ICWS 2004) |
| May 2004 | 13th International World Wide Web Conference (WWW 2004) |
| May 2004 | 2nd Workshop on Semantics in Peer-to-Peer and Grid Computing at WWW 2004 |
| Dec. 2003 | 4th International Conference on Web Information Systems Engineering (WISE ’03) |
| Nov. 2003 | 2nd International Conference on Ontologies, DataBases, and Applications of Semantics for Large Scale Information Systems (ODBASE ’03) |
| Nov. 2003 | 12th International Conference on Information and Knowledge Management (CIKM 2003) |
| Oct. 2003 | 2nd International Semantic Web Conference |
| Oct. 2003 | Semantic Integration Workshop at ISWC 2003 |
| Oct. 2003. | Workshop on Semantic Web Technologies for Searching and Retrieving Scientific Data at ISWC2003 |
| Oct. 2003 | Workshop on Practical and Scalable Semantic Systems at ISWC 2003 |
| Oct. 2003 | 2003 IEEE/WIC International Conference on Intelligent Agent Technology (IAT 2003) |
| Sept. 2003 – Oct. 2003 | ICEC Workshop on Semantic Web Services for Enterprise Application Integration and E-Commerce |
| Sept. 2003 | Semantic Web Services for Enterprise Application Integration and E-Commerce (SWSEE ‘03) |
| Sept. 2003 | 4th Annual International Conference on Object-oriented and Internet-based Technologies, Concepts, and Applications for a Networked World |
| Sept. 2003 | Workshop on Semantic Web and Databases at the 29th International Conference on Very Large Data Bases (VLDB 2003) |
| Sept. 2003 | 1st International Workshop on Semantic Web and Databases |
| Aug. 2003 | 7th International Workshop CIA-2003 on Cooperative Information Agents |
| Jun. 2003 | IEEE Conference on E-Commerce (CEC ‘03) |
| Jun. 2003 | IEEE International Conference on Electronic Commerce (CEC '03) |
| May 2003 | 12th International World Wide Web Conference (WWW 2003) |
| May 2003 | 1st Workshop on Semantics in Peer-to-Peer and Grid Computing at WWW 2003 |
| Oct. 2002 | 1st International Conference on Ontologies, DataBases, and Applications of Semantics for Large Scale Information Systems (ODBASE '02) |
| Oct. 2002 | 3rd International Symposium on Multi-Agent Systems, Large Complex Systems, and E-Businesses (MALCEB 2002) |
| Oct. 2002 | 3rd Annual International Conference on Object-oriented and Internet-based Technologies, Concepts, and Applications for a Networked World |
| Oct. 2002 | Net.Object Days 2002 |
| Sept. 2002 | 6th International Workshop CIA-2002 on Cooperative Information Agents |
| Jul. 2002 | 2nd International Workshop on Databases, Documents, and Information Fusion (DBFusion 2002): Information Integration and Mining in Databases and on the Web |
| Jun. 2002 | 1st International Semantic Web Conference (ISWC-2002) |
| May 2002 | 11th International World Wide Web Conference (WWW 2002) |
| May 2002 | 1st WWW 2002 Workshop on Real World RDF and Semantic Web Applications |
| Sept. 2001 | 5th International Workshop CIA-2001 on Cooperative Information Agents |
| Sept. 2001 | 6th International Conference on Cooperative Information Systems (CoopIS 2001) |
| Jul. 2001 | International Semantic Web Workshop: Infrastructure and Applications for the Semantic Web |
| May 2001 –  Jun. 2001 | Autonomous Agents 2001 |
| May 2001 | 2nd International Workshop on the Semantic Web (SemWeb’2001) at WWW ‘10 |
| Apr. 2001 | International Workshop on Information Integration on the Web: Technologies and Applications |
| Sept. 1999 | 5th International Workshop on Groupware (CRIWG '99) |
| Jul. 1999 –  Aug. 1999 | 3rd International Workshop on Cooperative Information Agents (CIA-99) |
| Mar. 1999 | 9th RIDE International Workshop on Information Technology for Virtual Enterprises |
| Mar. 1999 | 2nd International Conference on Interoperating Geographic Information Systems (Interop '99) |
| Nov. 1998 | CSCW Workshop on Adaptive Workflow Systems |
| Nov. 1998. | 5th International Conference of Foundations of Data Organization (FODO '98) |
| Sept. 1998 | 11th International Conference on Parallel and Distributed Computing Systems |
| Aug. 1998 | International Workshop on Workflow Management (WFM '98) |
| Aug. 1998 | 3rd IFCIS International Conference on Cooperative Information Systems (CoopIS '98) |
| Jun. 1998 | ACM SIGMOD Conference |
| May 1998 | 18th International Conference on Distributed Computing Systems |
| Mar. 1998 | 6th International Conference on Extending Data Base Technology (EDBT '98) |
| Dec. 1997 | 2nd International Conference on Visual Information Systems (Visual '97) |
| Dec. 1997 | International Conference on Management of Data (COMAD '97) |
| Oct. 1997 | 7th IFIP 2.6 Working Conference on Database Semantics (DS–7) |
| Sept. 1997 | 8th International Conference on Database and Expert Systems Applications (DEXA '97) |
| Sept. 2002 | 2nd IEEE Metadata Conference |
| Jun. 1996 | 1st IFCIS Conference on Cooperative Information Systems (COOPIS '96) |
| Mar. 1996 | 5th International Conference on Extending Database Technology (EDBT'95) |
| 1996 | 5th IEEE RIDE Workshop on Interoperability of Nontraditional Databases (RIDE-IND '96) |
| 1996 | 12th IEEE International Conference on Data Engineering |
| Dec. 1995 | 7th International Conference on Management of Data (COMAD '95) |
| Dec. 1995 | 14th Object-oriented and Entity Relationship Modeling '95 (OO–ER95) |
| Nov. 1995 | 4th International Conference on Information and Knowledge Management |
| Jun. 1995 | 2nd Next Generation Information Technologies and Systems (NGITS–95) |
| May 1995 | IFIP DS–6 Database Application Semantics |
| Apr. 1995 | 11th IEEE International Conference on Data Engineering |
| Mar. 1995 | 4th International Conference on Extending Database Technology (EDBT 95) |
| Sept. 1994 | 20th International Conference on Very Large Data Bases (VLDB 94) |
| Jun. 1994 | 1st International Conference on Application of Databases (ADB 94) |
| May 1994 | 2nd International Conference on Cooperative Information Systems (CoopIS 94) |
| Apr. 1994 | 10th IEEE International Conference on Data Engineering |
| Apr. 1993 | 9th IEEE International Conference on Data Engineering (ICDE 1993) |
| Jan. 1993 | 2nd International Conference on Parallel & Distributed Information Systems (PDIS 93) |
| 1993 | 2nd International Conference on Information and Knowledge Management |
| Nov. 1992 | IFIP DS-5 Semantics of Interoperable Data Base Systems-92 |
| Feb. 1992 | 2nd International Workshop on Research Issues on Data Engineering: Transaction and Query Processing (RIDE-TQP) |
| Feb. 1992 | 8th IEEE International Conference on Data Engineering (ICDE 92) |
| 1991 | 1st International Conference on Information and Knowledge Management |
| Apr. 1991 | 21st International Conference on Distributed Computing Systems (ICDCS-21) |
| Apr. 1991 | 1st International Workshop on Research Issues on Data Engineering: Interoperability in Multidatabase Systems (RIDE-IMS) |
| Apr. 1991 | 7th IEEE International Conference on Data Engineering (ICDE 91) |
| Dec. 1991 | COMAD/Management of Data |
| Mar. 1990 | 1st International Conference on Databases, Parallel Architectures and their Applications (PARBASE-90) |
| 1990 | 2nd International Symposium on Database in Parallel and Distributed Systems |
| 1988 | 1st International Symposium on Database in Parallel and Distributed Systems |
| Feb. 1988 | 4th IEEE International Conference on Data Engineering |

# 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) |
| 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  2002  1998  1997  1996 | Norway,  Research Council of Norway |
| 2003 | Australian Research Council, Expert Assessor of International Standing |
| 2001 | Ireland, Science Foundation |
| 1999 | Austria, Fonds zur Förderung der wissenschaftlichen Forschung  (FWF) |
| 2005  2003 | The Netherlands,  Netherlands Organization for Scientific Research (NOW) |
| 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 this area of work. Chaired sessions at numerous conferences.

## **Society Memberships**

|  |  |  |
| --- | --- | --- |
| 2006-Present | 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-Present | Member | Association for Computing Machinery, including SIGMOD |
| 1997–2002 |  | SIGGROUP |

# Curriculum Development (Initiatives and Courses)

## **Initiatives**

* Led development of Big and Smart Data MS certificate program starting Aug. 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 in the real world. Main emphasis is on distributed computing and information systems and e-commerce technologies, but also shares real-world experiences.
* **Internet Programming**, 2000.  For the new Masters in Internet Technology program.
* **Internet Information Systems**, 2000.  For the new Masters in Internet Technology program.

## **External Curriculum Advising/Accreditation:**

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

# Instruction and Academic Services (since 1994)

## **Courses Taught**

|  |  |  |
| --- | --- | --- |
| CS 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 |
| CSCI 8351 | Semantic Web Services & Processes | S ’06 |
| CSCI 4350/6350 | Global Information Systems | S ’05 |
| CSCI 8350 | Semantic Web | F ’05 |
| CSCI 8351 | Semantic Web Services & Processes | S ’04 |
| CSCI 8350 | Semantic Web | F ’04 |
| CSCI 4350/6350 | Global Information Systems | S ’03 |
| CSCI 8350 | Semantic Web | F ’03 |
| CSCI 8350 | Semantic Web | S ‘02 |
| CSCI 8350 | Semantic Enterprise | F ’02 |
| CSCI 8350 | Enterprise Integration (w/ Cardoso) | S ’01 |
| CSCI 8350 | Enterprise Integration (w/ Arpinar) | S ’00 |
| CSCI 6350 | Global Information Systems | F ‘99 |
| CSCI 8350 | 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 |
| CS 203 | Programming Project Designs | F  ’96 |
| CS 837 | Advanced Database Systems | W ’95 |
| CS 490/690 | Special Topics in Computer Science | S ’95 |
| CS 203 | Programming Project Design | F  ’95 |

## **Supervision of Student Research as Major Professor**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Name** | **Thesis** | **Jobs/Career** |
|  | Wenbo Wang  PhD (WSU): 06/2015 | [Automatic Emotion Identification from Text](http://www.knoesis.org/library/resource.php?id=2212) | GoDaddy |
|  | Hemant Purohit  PhD (WSU): 06/2015 | [Mining Behavior of Citizen Sensor Communities to Improve Cooperation with Organizational Actors](http://www.knoesis.org/library/resource.php?id=2210) | George Mason University |
|  | Delroy CameronPhD (WSU): 12/2014 | [A Context-Driven Subgraph Model for Literature-Based Discovery](http://knoesis.wright.edu/library/resource.php?id=2007) | URX, Inc. |
|  | Pablo MendesPhD (WSU): 12/2013 | [Adaptive Semantic Annotation of Entity and Concept Mentions in Text](http://knoesis.wright.edu/library/resource.php?id=1947) | IBM Almaden Research Center (innovation division for the IBM Watson Computer (Core Technologies)) |
|  | Cory HensonPhD (WSU): 11/2013 | A Semantics-based Approach to Machine Perception Senior Research Engineer | Bosch Research & Technology Center |
|  | Pratik DesaiPhD (WSU): 04/2013Co-advisor: Kuldip Rattan | A Situation Awareness Framework for Indoor Cyber-Physical Systems Aided by Fuzzy Abductive Reasoning and Semantic Web | Seer Labs, Inc. |
|  | Christopher ThomasPhD (WSU): 12/2012 | Knowlwedge Acquisition in a System | Samsung Research and Development Center |
|  | Ajith RanabahuPhD (WSU): 08/2012 | [Abstraction Driven Application and Data Portability in Cloud Computing](http://knoesis.wright.edu/library/resource.php?id=1802) | Amazon’s core Cloud Platform group |
|  | Prateek JainPhD (WSU): 08/2012 | Linked Open Data Alignment and Querying | IBM TJ Watson Research Center |
|  | Meenakshi NagarajanPhD (WSU): 08/2010 | [Understanding User-Generated Content on Social Media](http://knoesis.wright.edu/library/resource.php?id=850) | IBM Almaden Research Center |
|  | Satya S. SahooPhD (WSU): 07/2010 | [Semantic Provenance: Modeling, Querying, and Application in Scientific Discover](http://knoesis.wright.edu/library/resource.php?id=852) | Case Western Reserve University (tenure track) |
|  | Karthik GomadamPhD (WSU): 08/2009 | [Semantics Enriched Service Environments](http://knoesis.wright.edu/library/resource.php?id=1021) | Accenture Labs |
|  | Angela MadukoPhD (WSU): 05/2009 | Building Statistical Summaries for Obtaining Accurate Estimates of the Cardinality of Graph Pattern Matching Queries | Teradata; earlier: ADVIS Lab at University of Illinois at Chicago |
|  | Matthew PerryPhD (WSU): 07/2008 | [A Framework to Support Spatial, Temporal and Thematic Analytics over Semantic Web Data](http://knoesis.wright.edu/library/resource.php?id=00322) | Oracle |
|  | Cartic RamakrishnanPhD (WSU): 10/2008 | [Extracting, Representing and Mining Semantic Metadata from Text: Facilitating Knowledge Discovery in Biomedicine](http://knoesis.wright.edu/library/resource.php?id=00335) | IBM Research Center, Earlier: Datapop; ISI; CCHMC |
|  | Kemafor AnyanwuPhD (UGA): 08/2007 | [Supporting Link Analysis using Advanced Querying Methods on Semantic Web Databases](http://knoesis.wright.edu/library/resource.php?id=1737) | North Carolina State University |
|  | Kunal VermaPhD (UGA): 08/2006Co-advisor: John A. Miller | [Configuration and Adaptation of Semantic Web Processes](http://knoesis.wright.edu/library/resource.php?id=1563) | Accenture Labs |
|  | Jorge CardosoPhD (UGA): 08/2002 | [Quality of Service and Semantic Composition of Workflows](http://knoesis.wright.edu/library/resource.php?id=1759) | Prof. University of Coimbra; earlier: SAP Research; Asst. Prof., U. Madiera |
|  | Zongwei LuoPhD (UGA): 02/2001 | Knowledge Sharing, Coordinated Exception Handling, and Intelligent Problem Solving for Cross–Organizational Business Processes | Assoc. Prof., South University of Science and Technology of China; earlier: U of Hong Kong; IBM Watson Research. |
|  | Vipul KashyapPhD (Rutgers): 10/1997 | Information Brokering over Heterogeneous Digital Data | Director, Clinical Decision Support and Knowledge Management at CIGNA; earlier: Partner Healthcare; NLM, Bellcore |
|  | Swapnil SoniMS (WSU): 05/2015 | [Domain Specific Document Retrieval Framework for Near Real-time Social Health Data](http://www.knoesis.org/library/resource.php?id=2209) | DropThought |
|  | Revathy KrishnamurthyMS (WSU): 04/2015 | [Knowledge Enabled Location Prediction of Twitter Users](http://rave.ohiolink.edu/etdc/view?acc_num=wright1424349831) | FactSet |
|  | Gaurish AnandMS (UGA): 08/2014 | Automatic Identification of Interestingness in Biomedical Literature | Sandia National Lab |
|  | Ashwin ManjunathaMS (WSU): 06/2011 | [A Domain Specific Language Based Approach for Developing Complex Cloud Computing Applications](http://knoesis.wright.edu/library/resource.php?id=1559) | CISCO |
|  | Harshal PatniMS (WSU): 06/2011 | [Real TimeSemantic Analysis of Streaming Sensor Data](http://knoesis.wright.edu/library/resource.php?id=1618) | Entrepreneur. Earlier Zynx Health |
|  | Sujeeth ThirumalaiMS (UGA): 08/2007Co-advisor: J. Miller | Keyword Search Interface for Path Queries on Ontology | Akamai Technologies |
|  | Bilal GonenMS (UGA): 08/2006 | [Semantic Browser](http://knoesis.wright.edu/library/resource.php?id=1738) | University of West Florida (Asst. Prof.) |
|  | Ravi PavagadaMS (UGA): 08/2006 | [Supporting keyword search on semantic web documents](http://knoesis.wright.edu/library/resource.php?id=1732) | Manager, Comcast; earlier: Excelacom |
|  | William MilnorMS (UGA): 12/2005 | [Discovering Informative Subgraphs in RDF Graphs](http://knoesis.wright.edu/library/resource.php?id=00101) | Topquadrant |
|  | Swapna OnudhakarMS (UGA): 12/2004 | [Semantic Web service discovery in a multi-ontology environment](http://knoesis.wright.edu/library/resource.php?id=1742) | ADP |
|  | Rohit AggrawalMS (UGA): 08/2004Co-advisor: J. Miller | [Constraint driven Web service composition in METEOR-S](http://knoesis.wright.edu/library/resource.php?id=1739) | NetCracker; earlier: senior positions in Convergys |
|  | Christian Halaschek-WienerMS (UGA): 08/2004Co-advisor: I.B. Arpinar | [A Flexible Approach for Ranking Complex Relationships on the Semantic Web](http://knoesis.wright.edu/library/resource.php?id=1757) | CTO & Co-Founder at HashGo; earlier: SemanticSpace Technologies |
|  | Abhijit PatilMS (UGA): 12/2003 | [METEOR-S Web Service Annotation Framework](http://knoesis.wright.edu/library/resource.php?id=1760) |  |
|  | Kaarthik SivashanmugaMS (UGA): 08/2003Co-advisor: J. Miller | [The METEOR-S Framework for Semantic Web Process Composition](http://knoesis.wright.edu/library/resource.php?id=1758) | Microsoft |
|  | Madhan ArumugamMS (UGA): 12/2001 | The Peer-to-Peer Semantic Web: A Distributed Environment for Sharing Semantic Knowledge on the Web | Lead Program Manager, Microsoft; earlier: Intel |
|  | Wonjung KimMS (UGA): 12/2001 | [Knowledge Based Personalization](http://knoesis.wright.edu/library/resource.php?id=1564) | Samsung |
|  | Shuchi PatelMS (UGA): 08/2001 | Planning and Optimizing Semantic Information Requests on Heterogeneous Information Sources Using Semantically Modeled Domain and Source Characteristics | Tech Lead at Verizon |
|  | Sanjeev ThackerMS (UGA): 08/2001 | Knowledge Modeling for Study of Domains and Inter–domain Relationships – A Learning Paradigm |  |
|  | Zhongqiao LiMS (UGA): 08/2000 | [Using Collaboration Task in OrbWork Enactment System for METEOR Workflow Management System](http://knoesis.wright.edu/library/resource.php?id=1562) | Earlier: i2 Technologies |
|  | Narayan PalsenaMS (UGA): 08/2000 | [A Framework for Creating Information Landscapes and Modeling Metadata in the Context of Digital Earth](http://knoesis.wright.edu/library/resource.php?id=1819) | SAP |
|  | Sriram LakshminarayanMS (UGA): 07/2000 | Semantic Interoperability in Digital Libraries using Inter–Ontological Relationships | Engineering Manager at Elance; earlier: Yahoo!! |
|  | Dilpreet SinghMS (UGA): 12/2000 | [An Agent Based Architecture for Query Planning and Cost Modeling of Web Sources](http://knoesis.wright.edu/library/resource.php?id=1734) | Cofounder, CTO at Life360; earlier: Director, Kana |
|  | Mukesh GuntamaduguMS (UGA): 08/2000 | MÉTIS: Automating Metabase Creation from Multiple Heterogeneous Sources | CBS Interactive; Earlier: Looksmart |
|  | Subrajit RayMS (UGA): 08/1999 | Ontology-based Media Independent Correlation of Information Across Heterogeneous Distributed Sources | VP, Deutsche Bank |
|  | Vineet MahajanMS (UGA): 08/1999 | A Multi-Agent System for Metadata Management and Information Brokering | SmartBrief (CTO); earlier Interim CTO at HuffingtonPost; VP at AOL |
|  | Clemens BertramMS (UGA): 12/1998 | [Metadata and Ontology Based Query Processing in the InfoQuilt System](http://knoesis.wright.edu/library/resource.php?id=1753) | VP at Goldman Sachs; earlier: VP of Tech at Semagix/Director of Engg at Voquette/Taalee |
|  | Krishnan ParsuramanMS (UGA): 12/1998 | Agent Support in the InfoQuilt System | IBM - Digital Media (CTO); Earlier: Netezza, Infosys, Exemplary |
|  | Vipul KashyapMS (Rutgers): 10/1997 | Information Brokering over Heterogeneous Digital Data | CIGNA |
|  | Selvam VelmuruganMS (UGA): 9/1997 | Collaborative Tele-Consulting for Healthcare: CATCH | Director of Groupon; earlier: Netflix, Amazon; |
|  | Srilekha MudumbaiMS (UGA): 05/1997 | [ZEBRA Image Access System](http://knoesis.wright.edu/library/resource.php?id=00236) | Owner (entrepreneur), JitBit; earlier: Lawrence Berkeley National Lab; Verizon; |
|  | Devashish WorahMS (UGA): 05/1997 | Error Handling and Recovery for the ORBWork Workflow Enactment Service in METEOR | VP, Virtuasa |

## **External Academic Advising**

* Member of Ph.D. dissertation committee for Ph.D. candidate Haibo Zhao, University of Georgia, Athens, GA, 2009.
* Member of Ph.D. dissertation committee for Ph.D. candidate Fabian M. Suchanek, Saarland University, Saarbrucken, Germany, expected completion Dec 2008.
* External expert reviewer for Ph.D. candidate Manual Garcia Solaco, Facultat d'Informatica de la Universitat Politechica de Cataluna, Barcelona, 1994.
* External adviser and dissertation committee member for Ph.D. student George Karabatis, Univ. of Houston. “Management of Interdependent Data in a Multidatabase Environment: A Polytransaction Approach,” May 1995.
* Member of Ph.D. dissertation committee for Quiang Zhu. “Estimating Local Cost Parameters for Global Query Optimization in a Multidatabase System.” University of Waterloo, Canada, Aug. 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, Sept. 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 Jul. 1997 and Dec. 1997.

Supervised research of Tascisio Lima (Ph.D. student, University of Brazil) during his work at LSDIS Lab, UGA, Aug. 1998-Jun. 2000.

## **Current Doctoral Students**

P. 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)**

| Post-Doc (Where & When) | Institution, Year | Title of Research Project | Current Position |
| --- | --- | --- | --- |
| Yanbo Han  UGA: 1995–1997 | Technical University of Berlin, 1995 | METEOR: Healthcare Information Infrastructure Program—Enterprise Workflow Automation | Professor,  North China University of Technology |
| Shengli Wu  UGA: 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  UGA: 1998–2001 | METU–Turkey, 1997 | METEOR: Healthcare Information Infrastructure Program—Enterprise Workflow Automation | Assoc. Prof.,  University of Georgia |
| Farshad Hakimpour UGA: 2005–2006 | Univ. of Zurich, 2003 | SemDis: Discovering Complex Relationships in Semantic Web | Asst. Prof.,  Tehran University |
| Ramakanth Kavaluru  WSU: 2009–2011 | University of Kentucky, 2009 | SemDIS: Discovering Complex Relationships in the Semantic Web | Asst. Prof.,  University of Kentucky |
| Kera Z. Watkins  WSU: 2012-2013 | North Carolina St. U, 2006 | PREscription Drug abuse Online Surveillance and Epidemiology | Lecturer,  Wright State University |
| Priti Parikh  WSU: 2009– 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**

* Board of Directors of the Service-Oriented Computing Summer School ([SummerSOC](http://www.summersoc.eu/)), Hersonissos Crete Greece, Jun. 27- Jul. 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, Mar. 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

* Adhoc Research Committee: Wright State University, 2014 – Present.
* Member of Graduate Faculty: Wright State University, 2007 – Present; University of Georgia: 1994 –2007.
* Member of Faculty Development Committee, 2010 – 2012.
* Department Graduate Studies Committee, Wright State University, 2008 – 2010.
* Participation in Departmental Committees at UGA–CS department:
  + Graduate Admissions Committee, also Aid Committee, 1996 – 2006 and 2008–2010.
  + Faculty Search Committee, 1995, 2000, 2004, 2009.
  + Equipment Committee, 1994 – 2006.Space Committee, 1997 – 1998.