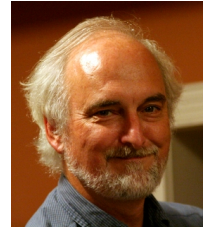


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Ph.D. in Computer Science, University of Illinois, 1980. dissertation: *The Semantic Interpretation of Compound Nominals* (advisor: D. L. Waltz)

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Employment

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1991-95 Professor and Chair, Department of Computer Science

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1971-74 Research Staff, Artificial Intelligence Laboratory, MIT

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Publications and collections

Copies available from <http://bit.ly/twfpapers>, citation data from <http://bit.ly/twfcite>.

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University of Maryland, Baltimore County

1. *CDI-Type II: GLOBE: Evolving New Global Workflows for Land Change Science*, NSF, CO-PI, (recommended for funding) \$1.93M, 2011-15.
2. *Platys: From Position to Place in Next Generation Networks*, NSF, \$700K, 2009-13.

3. *Inferring the semantics of structured and unstructured data*, Microsoft External Research, \$100K, 2009-10.
4. *Understanding RSM: Relief Social Media*, Office of Naval Research (via subcontract from Lockheed Martin), \$135K, 2009-11.
5. *A Framework for Managing the Assured Information Sharing Lifecycle*, Multi-disciplinary University Research Initiative (MURI), AFOSR, \$7.5M, 2008-13.
6. *Policy-based WAN Configuration and Management*, DARPA Phase II STTR with Shared Spectrum Company, 2008-2009.
7. *Modeling influence, bias and information flow in Social Media*, Google, 2008-09, \$60K
8. *Modelling bias, influence and information flow in social media*, Microsoft Research 2008-09, \$55K
9. *CT-T: Collaborative Research: A Semantic Framework for Policy Specification and Enforcement in a Need to Share Environment*, PI, NSF (0716627), 2007-08, \$50K.
10. *SPINTEL:Information Quality for the Intelligence Analysis*, Lockheed-Martin Advanced Technology Laboratory, 2007, \$40K.
11. *Policy-based WAN Configuration and Management*, DARPA Phase I STTR with Shared Spectrum Company, 2006-2007, \$40K.
12. *National Biological Information Infrastructure (NBII) and University of Maryland Baltimore County Invasive Species Collaboration Project*, US Geological Survey, \$5K, 2005.
13. *Supporting Large Scale Computational Research in Autonomic Systems, Bioinformatics and the Environmental Sciences*, CO-PI, IBM Shared University Research, equipment award, 2005.
14. *Context Aware Surgical Training*, University of Maryland Medical Center, 2006-2008.
15. *Trauma Pod middleware*, DARPA (via University of Maryland Medical System), 2005-2007. [link](#)
16. *Indexing and retrieving semantic web documents*, Fujitsu Labs of America, \$20K, 2005.
17. *Computational Support for Research in Large-Scale Autonomic Systems, Bioinformatics, and Environmental Sciences*, CO-PI, IBM Shared University Research, equipment award, 2004.
18. *Research support for task computing*, Fujitsu Labs of America, \$56K, 2004-5.
19. *ITR: Science on the Semantic Web: Prototypes in Bioinformatics*, PI, NSF (0326460), 2003-8, \$2.35M. [link](#)
20. *ITR-SemDis: Discovering Complex Relationships in Semantic Web*, CO-PI, NSF (0325172), 2003-5.
21. *Trust and security for the Semantic Web*, PI, NSF, \$240K, 2003-2006. [link](#)
22. *Research in pervasive computing*, Fujitsu Labs of America, \$15K, 2003.
23. *An Eclipse IDE for Security, Trust and Privacy Policies*, CO-PI, IBM, \$25K, 2003.
24. *Research on advanced information systems for mobile computing, the semantic web and bioinformatics*, CO-PI, IBM Shared University Research, equipment award, 2003.
25. National Science Foundation, *Profile Driven Architecture for Data Management in Pervasive Environments*, \$153,190 Anupam Joshi (PI), Tim Finin (CO-PI), and Yelena Yesha (CO-PI), 2002-2005. [link](#)
26. National Science Foundation, *Agent Oriented Approaches to a Ubiquitous Grid*, \$480,726, Anupam Joshi (PI), Elias Houstis (CO-PI), Tim Finin (CO-PI), Hillol Kargupta (CO-PI), 2002-2005 [link](#)
27. *Intelligent agents for electronic service registration, discovery, and negotiation*, Hewlett Packard, 2002, \$30K.
28. *NGS: Workshop on Manufacturing Software Integration Research: Status and Future Directions*, National Science Foundation, \$20K, CO-PI, 2001-2002.
29. *Intelligent agents for electronic service registration, discovery, and negotiation*, Hewlett Packard, 2001, \$30K.
30. *Research in Agent Communication Languages*, Fujitsu Corporation, \$30K, 2000-01.
31. AetherSystems Inc, *Home Automation Service Discovery*, \$132,720, (Co-PI with Anupam Joshi and Yelena Yesha), 2000.
32. National Science Foundation, *Dynamic Negotiation Agents in Mobile Computing*, \$174,000, (with Anupam Joshi and Yelena Yesha, Co-PIs), 2000-2003. [link](#)
33. *DAML Tools for supporting Intelligent Information Annotation, Sharing and Retrieval*, DARPA, \$2,018,000, 2000-2005. [link](#)
34. *Research in Agent Communication Languages*, Fujitsu Corporation, \$40K, 1999-00.
35. *Coordinated Agent Test and Demonstration Environment*, PI on subcontract to Global InfoTek for DARPA COABS program (BAA98-01), \$460K, 1998-01.
36. *Research in Agent Communication Languages*, Fujitsu Corporation, \$40K, 1998-99.
37. *Extended Enterprise Coalition for Integrated Collaborative Manufacturing Systems*, PI, \$775K, 1998-00. NIST ATP/TIMA program.
38. *Security for software agents*. PI, \$50K, 1997-8, Department of Defense.
39. *Computer Integrated Knowledge Systems*. PI, \$50K, 1997-8, NIST.
40. *An agent-based framework for integrated intelligent Planning-execution*. PI. \$900K, 1996-99. NIST ATP/TIMA program.

41. *A Capability Package Supporting Evolutionary Views of Lifecycle Versions, Elements and Rationales*, DARPA Evolutionary Design of Complex Software program. CO-PI. \$160K, 1996-1999.
42. *An Agent-based Architecture for Large-Scale Document Information Systems*, CO-PI, \$260K, 1994-97, Department of Defense.
43. *A Study to Assess the Usefulness of Cyc in a Mediated Architecture*, CO-PI. Department of Defense, \$50K, 1995-96.
44. *Research on Unitree Mass Storage System*, NASA/USRA, \$31K, 94-95.
45. *Intelligent Integration of Knowledge-based Systems*, Defense Advanced Research Projects Agency (ARPA/SISTO), jointly with Unisys and SUNY Buffalo, (\$160K 1994-96).
46. *Study and Evaluation of Persistent Object Base Systems*, National Institute of Science and Technology (NIST), \$159K, 1994-96.
47. *Research on Digital Libraries and Computer Systems Performance*, NASA, \$67K, 1993-94.
48. *AASERT Grant for Intelligent Agent Protocols*, Air Force Office of Scientific Research \$70K, 1993-95.
49. *Intelligent Agent Protocols*, Air Force Office of Scientific Research \$109K, 1992-95.
50. *A Development Environment for Spoken Language Systems*, UMBC DRIF GRA Application, 1992. \$1K.

Unisys

1. *Persistent Storage Technology for Planning and Scheduling*, Defense Advanced Research Projects Agency (DARPA/ISTO) and Rome Laboratory, \$2.5M, 1993-1995.
2. *Intelligent Database Interface for Knowledge-Based Planning and Scheduling*, Defense Advanced Research Projects Agency (DARPA/ISTO) and Rome Air Development Center (RADC), \$1.5M, 1991-1993.
3. *Human-Machine Interface Tools*, internal research and development project, Unisys Custom Systems Division, 1989.
4. *Intelligent System Server*, internal research and development project, Unisys Custom Systems Division, 1989.

University of Pennsylvania

1. *An Expert System for the Design of Injection Molded Packaging*, co-principal investigator, Benjamin Franklin Partnership, \$50K, 1987.
2. *Artificial Intelligence Research and Training*, Internal Revenue Service, co-principal investigator, \$300K, 1987-1988.
3. *Research in Natural Language*, Co-Principal Investigator, Defense Advanced Research Projects Agency (DARPA/ISTO) and Office of Naval Research (ONR), \$2.1M 1986-1989,
4. *Apple Development Grant*, equipment grant of \$8K, 1986.
5. *Techniques for the Acquisition and Maintenance of Knowledge Bases*, principal investigator, Digital Equipment Corporation, 1986-1987, \$60K.
6. *An Interactive CAD/CAM System for the Engineering Design of Injection Molded Plastic Parts*, co-principal investigator, \$300K, Scott Paper Company, 1986 - 1987.
7. *Distributed Expert Systems*, principal investigator, \$75K, Army Research Office, 1986-87.
8. *Equipment Grant*, Apple, \$10K, December 1986.
9. *Artificial Intelligence Research and Training*, Internal Revenue Service, co-principal investigator, \$300K, 1985-1986.
10. *HP Prism Grant*, Hewlett-Packard, co-principal investigator, Equipment Grant of \$3.3M over three years, 1985-88.
11. *Apple Development Grant*, Apple, \$6K, 1985.
12. *Scheme Software and Hardware*, Texas Instruments, \$6K, 1985.
13. *IBM Faculty Development Award*, \$100K, 1983-84.
14. *Natural Interfaces to Expert Systems*, Equipment Grant, Hewlett-Packard Research Partnership Program, co-principal investigator, \$140K. 1983.
15. *A Knowledge Based Approach to Intelligent Interactive Help Systems*, NSF Research Initiation Grant, \$100K, 1982 - 1984.

Teaching and mentoring

Dissertations supervised

Completed

- Justin Martineau, *Identifying and Isolating Text Classification Signals from Domain and Genre Noise for Sentiment Analysis*, 2011
- Zareen Syed, *Wikilogy: A novel hybrid knowledge base derived from Wikipedia*, August 2010
- Akshay Java, *Mining Social Media Communities and Content*, October 2008
- Pranam Kolari, *Detecting Spam Blogs: An Adaptive Online Approach*, December 2007
- Olga Ratsimore, *Coordination by bartering electronic goods and services*, May 2007
- Li Ding, *On Boosting Semantic Web Data Access*, March 2006
- Harry Chen, *An Intelligent Broker Architecture for Pervasive Context-Aware Systems*, December 2004
- Lalana Kagal, *A Policy-Based Approach to Governing Autonomous Behavior in Distributed Environments*, September 2004
- Youyong Zou, *Agent-Based Services for the Semantic Web*, August 2004
- Olga Streltchenko, *Exploring Trading Dynamics in a Derivative Securities Market of Heterogeneous Agents*, (co-advised with Charles Nicholas), December 2003
- R. Scott Cost, *Conversations and Protocols for Software Agents*, August 1999
- Muhammad Abdallah Rabi, *Relationships Among Security and Algebraic Properties of Cryptographic Objects, and a Security Infrastructure for Agent Communication Languages*, August 1998 (co-advised with A. Sherman)
- Ellis Clarke, *Knowledge discovery in historical databases*, May 1998
- Michael Grasso, *Speech Input in Multimodal Environments: Effects of Perceptual Structure on Speed, Accuracy, and Acceptance*, 1997 (co-advised with D. Ebert)
- Yannis K. Labrou, *The semantic specification of the KQML agent communication language*, 1996
- David Klein, *A Framework for the Explanation and Refinement of a Formal Choice Model*, University of Pennsylvania, 1989 (co-advised with T. Shortliffe)
- Robert Kass, *Automatic Acquisition of User Models in Cooperative Advising Systems*, University of Pennsylvania, 1988

In progress

- Jennifer Sleeman, expected 2013
- Karuna Joshi, expected 2013 (co-advised with Y. Yesha)
- Joel Sachs, expected 2012
- Robert Holder, expected 2012 (co-advised with M. desJardins)
- Lushan Han, expected 2011

Courses Taught

University of Maryland Baltimore County

- Computer Science I (CMSC201, undergraduate)
- Programming Languages (CMSC331, undergraduate)
- Database Management Systems (CMSC461, undergraduate)
- Introduction to Artificial Intelligence (CMSC471, undergraduate)
- Principles of Database Systems (CMSC661, graduate)
- Principles of Artificial Intelligence (CMSC671, graduate)
- Advanced Artificial Intelligence (CMSC771, graduate)
- Theory and practice of Knowledge Representation (CMSC771, graduate)
- Research methods (CMSC601, graduate)
- Communication Skills (CMSC692, graduate)
- Special topics in Computer Science, Teaching Cs1 in Python (CMSC691, graduate)

- Special topics in Computer Science, Intelligent Agents (CMSC691, graduate)
- Special topics in Computer Science, Semantic Web (CMSC691, graduate)
- Special topics in Computer Science, Intelligent Information Systems (CMSC891, graduate)

University of Pennsylvania, Department of Decision Sciences, Wharton School of Business

- Decision Support Systems (graduate)

University of Pennsylvania, Department of Computer and Information Science, School of Engineering and Applied Science

- Introduction to Artificial Intelligence (graduate)
- Seminar on Natural Language Processing (graduate)
- Advanced Topics in Artificial Intelligence (graduate)
- Programming Languages and Techniques (graduate)
- Interactive Systems (undergraduate)
- Data Structures (undergraduate)
- Programming Languages and Techniques (undergraduate)
- Introduction to Computing (undergraduate)

Professional service

Awards and Honors

- UMBC Presidential Research Professor, 2012-2015
- IEEE Technical Achievement Award (2009) "For pioneering contributions to Distributed Intelligent Systems"
- Appointment as Fellow, Foundation for Intelligent Physical Agents (1997)
- IBM Faculty Development Award (1983-84)

Advisory boards and studies

- Committee of Visitors for NSF's CISE Information and Intelligent Systems Division, 2005.
- member, scientific advisory committee, Computation Sciences and Engineering Division, Oak Ridge National Laboratory, 2005-2009.
- member, Joint DARPA/EU Semantic Web Services Committee, 2003-2005.
- member, World Wide Web Consortium Web Ontologies Working Group, 2001-2005.
- Advisory board, Advanced Information Technology, Smith-Klein Beechum, 1999-2004.
- Planning committee, CRA study on the Information Technology Workforce, (NSF sponsored), 1998-99.
- Steering committee, Institute for Global Electronic Commerce, 1997-2002.
- Executive board, Computer Research Association (AAAI representative), 1997-present.
- Councilor of the American Association for Artificial Intelligence (AAAI), 1994-97.
- 1991 NSF Presidential Young Investigator review board.
- Advisory board, DARPA/NSF Knowledge Representation Standards Initiative, 1990-1996.

Current Editorial Activities

- Editor-in-chief, Journal of Web Semantics, Elsevier, 2005-.
- Editorial board, Int. Journal of Agent-Oriented Software Engineering, InderScience
- Editorial Board, Artificial Intelligence Review, Springer, 1988-.

Past Editorial Activities

- Editorial board, Int. Journal on Artificial Intelligence Tools, World Scientific, 2005-2010.
- Editorial board, Autonomous Agents and Multi-agent Systems, Kluwer Academic Publishers.
- Advisory board, Int. Journal of Information and Knowledge Management
- Editor, *AgentNews*, ISSN 1090-306. AgentNews is an electronic newsletter distributed electronically by email and over the world-wide web. Published about 15 times per year with approximately 1600 direct subscribers.
- Co-editor with M. Koubarakis and Y. Labrou, Special issue on Intelligent Information Agents in the Internet and the WWW Age, Int. Journal on Artificial Intelligence Tools, vol 11 number 1, March 2002.
- Joint Editor, Tutorial Monographs in Artificial Intelligence (Ablex Publishing Corporation), 1988 - 1991.
- Editorial Board, User Modeling and User-Adapted Interaction, Kluwer, 1989 - 1997.
- Editorial Board, IEEE Expert, IEEE Press, 1990 - 1993.
- Associate, Behavioral and Brain Science, 1989-1990.
- Comtex Scientific Corporation, member of editorial board - Artificial Intelligence Series, 1982 - 1984.
- Guest Editor, *Computer Graphics and Applications*, special issue on "Computer Graphics and Artificial Intelligence", Volume 5 number 11, November 1985.

Major conference and workshop activities (last five years)

- Organizer, AAAI Fall Symposium on Open Government Knowledge: AI Opportunities and Challenges, November 2011.
- Organizer, AAAI Workshop on Activity Context Representation: Techniques and Languages, San Francisco, August 2011. *link*
- Organizer, NSF-IUSSTF Workshop on Distributed Infrastructure for Security Monitoring and Intelligence Extraction Indian Institute of Science, Bangalore 9-13 January 2010.
- Organizer, Workshop on 'Semantics for the Rest of Us, Variants of RDF and OWL in the Real World', 18th Int. World Wide Web Conf., Madrid, April 2009. *link*
- General chair, Int. Semantic Web Conf., Karlsruhe DE, October 2008. *link*
- Organizer, Int. Conf. on Weblogs and Social Media, Seattle, 30 March - 2 April 2008. *link*
- Organizer, AAAI Fall symposium on Regarding the "Intelligence" in Distributed Intelligent Systems, Arlington VA, 8-11 November, 2007.
- Co-Chair, Artificial Intelligence and the Web, a special technical paper track at the 22nd National Conf. on Artificial Intelligence, Boston (AAAI-07), July 2007.
- Co-Chair, Artificial Intelligence and the Web, a special technical paper track at the 21st National Conf. on Artificial Intelligence, Boston (AAAI-06), 16-20 July 2006.
- Organizer, AAAI Fall Symposium on Semantic Web for Collaborative Knowledge Acquisition, Arlington VA, 12-15 October 2006.
- Organizer, ECAI Workshop on the use of Semantic Web Technologies for Ubiquitous and Mobile Applications (SWUMA), Tentino IT, 28 August 2006. *link*
- Organizer, Workshop on Models of Trust for the Web (MTW'06), 15th Int. World Wide Web Conf. (WWW2006), 22 May 2006, Edinburgh. *link*

Program committee member (last five years)

- IEEE Int. Conf. on Intelligence and Security Informatics (ISI 2012), 11-14 June 2012, Washington, DC, USA
- IEEE Int. Symp. on Policies for Distributed Systems and Networks, 16-18 July 2012, Chapel Hill, USA
- Senior Program Committee Member, 6th Int. AAAI Conf. on Weblogs and Social Media (ICWSM-12), 4-8 June 2012, Dublin, Ireland
- 9th Extended Semantic Web Conf., Crete, May 2012
- ICDE Workshop on Secure Data Management on Smartphones and Mobiles, in conjunction with ICDE 2012, April 1-5, Washington D.C.
- 11th Int. Semantic Web Conf. (ISWC-2011), Outrageous Ideas Track, November 2011.
- ACM Symposium on New Ideas in Programming and Reflections on Software, October 2011, Portland OR.
- Int. Workshop on Multi-Agent Systems and Collaborative Technologies, Philadelphia., May 2011.
- First Workshop on Question Answering over Linked Data (QALD-1), collocated with the Extended Semantic Web Conf. (ESWC), May 2011.

- IEEE Conf. on Intelligence and Security Informatics, Beijing, China, 10-12 July 2011.
- 2011 Int. Conf. on Social Computing, Behavioral-Cultural Modeling, and Prediction (SBP11), March 2011.
- Senior program committee, Tenth Int. Semantic Web Conf., Shanghai, November 2010.
- Area chair, 9th Int. Conf. on Autonomous Agents and Multiagent Systems Toronto, May 2010.
- Int. Conf. on Social Computing, Behavioral Modeling, and Prediction (SBP10), March 2010.
- Int. Workshop on Multi-Agent Systems and Collaborative Technologies, Chicago, Illinois, May 2010.
- Fourth AAAI Conf. on Weblogs and Social Media, senior program committee member, Washington DC, 24-26 May 2010. *link*
- Senior program committee, Ninth Int. Semantic Web Conf., Washington DC, October 2009.
- Semantic Web Area, WWW2010, 26-30 April, 2010, Raleigh NC. *link*
- Second Int. Workshop on Social Computing, Behavioral Modeling, and Prediction, Phoenix, March 31 - April 1, 2009
- AAAI Spring Symposium on Social Semantic Web: Where Web 2.0 Meets Web 3.0, Stanford, March 2009.
- Third Int. Conf. on Weblogs and Social Media, San Jose, May 2009.
- Senior program committee, 21st Int. Joint Conf. on Artificial Intelligence, Pasadena, July 2009.
- Semantic/Data Web track of the 18th Int. World Wide Web conference (WWW2009), Madrid, Spain on April 20-24, 2009.
- Vice chair, The 6th Int. Semantic Web Conf., November 2007.
- Third Int. Workshop on Adversarial Information Retrieval on the Web, Banff, 8 May 2007. *link*
- Senior program committee, 2007 Int. Conf. on Autonomous Agents and Multiagent Systems, 14-18 May 2007, Honolulu, Hawai'i.
- IEEE Workshop on Policies for Distributed Systems and Networks, 13-15, June 2007 Bologna, Italy. *link*
- First Int. Conf. on Weblogs and Social Media, 26-28 March 2007, Boulder CO. *link*.
- Semantic Web track, World Wide Web Conf., 8-12 May 2007, Banff, Canada.
- Senior program committee, The 5th Int. Semantic Web Conf., 5-9 November 2006, Athens GA.
- Ubiquitous Access Control, Workshop at Mobiquitous 2006 17-21 July 2006, San Jose.
- Semantic Web and Databases Workshop, ICDE 2006, Atlanta GA, 3-7 April 2006. *link*
- First on-Line conference on Metadata and Semantics Research

Keynote and invited talks (last five years)

- 2012 Keynote talk, Third International Workshop on Data Engineering Meets the Semantic Web (DESWEB) co-located with the the annual IEEE International Conference on Data Engineering (ICDE2012), 1 April 2012.
- 2011 Making the Semantic Web Easier to Use for eScience Applications, Microsoft Research 2011 eScience Workshop, co-located with the IEEE International Conference on e-Science, Stockholm, December 2011.
New Applications for Information Extraction, Qualcomm Research, January 2011.
- 2010 Creating and Exploiting a Web of Semantic Data, NSF-IUSSTF Workshop on Distributed Infrastructure for Security Monitoring and Intelligence Extraction Indian Institute of Science, Bangalore 9-13 January 2010.
Creating and Exploiting a Web of Semantic Data, Proceedings of the Second International Conference on Agents and Artificial Intelligence, Valencia ES, 24 January 2010.
- 2009 Creating and Exploiting a Web of Semantic Data, Infosys Aurora Conference, Los Angeles, October 2009.
Managing the Assured Information Sharing Lifecycle, IEEE Intelligence and Security Informatics Conference, Dallas, June 8, 2009.
Wikipedia as an ontology, AAAI Spring Symposium on Social Semantic Web, March 23, 2009.
Creating and exploiting a web of (semantic) data, CSEE Research Review, May 1, 2009
Creating and exploiting a web of (semantic) data, Human Language Technology Center of Excellence, Johns Hopkins University, April 2009.
- 2008 Finding knowledge, data and answers on the Semantic Web, The Semantic Web meets the Deep Web Workshop, held at the IEEE Joint Conference on E-Commerce Technology and Enterprise Computing, E-Commerce and E-Services, July 2008, Arlington VA.
An overview of Social Media Content Analysis, Microsoft Social Media Workshop, Seattle, July 30 2008.

- 2007 Wikitology: Wikipedia as an Ontology, Lockheed-Martin Advanced Technology Laboratory, Arlington VA, December 2007.
- Computational Policies in a Need to Share Environment, Microsoft SemGrail Workshop, June 2007, Redmond WA.
- Finding knowledge, data and answers on the Semantic Web, 20th International FLAIRS Conference, Key West FL, 9 May 2007.
- 2006 Finding knowledge, data and answers on the Semantic Web, MIT Decentralized Information Group, 17 July 2006, Cambridge MA.
- Swoogle: Finding knowledge, data and answers on the Semantic Web, Fifth Semantic Interoperability for E-Government Conference, 10-11 October 2006, MITRE, McLean VA.
- 2005 Panelist: OWL leaves the nest, First International Symposium on Agents and the Semantic Web, Arlington, 4 Novembr 205.
- Multiagent Systems meet the Semantic Web in the Aether, keynote talk, Mobility aware technology and applications Workshop, 18 October, 2005, Montreal.
- Intelligent Agents meet the Semantic Web, Oakridge National Laboratory, APril 5, 2005.
- Building Intelligent Applications Using Ontologies and the Semantic Web, tutorial presented at the 20th Annual ACM Symposium on Applied Computing Santa Fe, New Mexico, March 13 -17, 2005