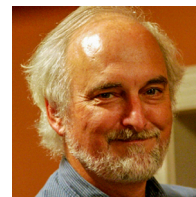


Tim Finin

Curriculum Vitae, April 7, 2024

Computer Science and Electrical Engineering
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Research Interests

Artificial intelligence, knowledge graphs, natural language processing, machine learning, and their applications to information systems, security, social media, and pervasive computing

Education

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

M.S. in Computer Science, University of Illinois, 1977. thesis: *An Interpreter and Compiler for Augmented Transition Networks* (advisor: D. L. Waltz)

S.B. in Electrical Engineering, Massachusetts Institute of Technology, 1971. thesis: *Three Problems in Analyzing Scenes* (advisor: P. H. Winston)

Employment

1991- Professor of Computer Science and Electrical Engineering, University of Maryland, Baltimore County

2017- Willard and Lillian Hackerman Chair in Engineering

2007- Affiliate Scientist, JHU Human Language Technology Center of Excellence

2014-2015 JHU Human Language Technology Center of Excellence (sabbatical leave)

2007-2008 JHU APL and Human Language Technology Center of Excellence (sabbatical leave)

1999-2002 Director, UMBC Institute for Global Electronic Commerce

1991-1995 Chair, UMBC Department of Computer Science

1987-91 Technical Director, Knowledge Based Information Processing, Unisys Center for Advanced Information Technology, Paoli PA

1987-91 Adjunct Associate Professor, Computer and Information Science, University of Pennsylvania

1980-87 Assistant Professor of Computer and Information Science, University of Pennsylvania

1974-80 Research Assistant, Research Associate, Coordinated Science Laboratory, Univ. of Illinois, Urbana-Champaign

1977 Visiting Research Staff, Computer Science Department, IBM. Research Laboratory, San Jose

1971-74 Research Staff, Artificial Intelligence Laboratory, MIT

Awards and Honors

- ACM Fellow for “for contributions to theory and practice of knowledge sharing in distributed systems and the World Wide Web”, 2018
- AAAI Fellow for “significant contributions to the theory and practice of knowledge sharing in multiagent systems and on the Web, and for sustained service to the AI community”, 2013
- UMBC Presidential Research Professor, 2012-2015
- IEEE Computer Society Edward J. McCluskey Technical Achievement Award for “pioneering contributions to Distributed Intelligent Systems”, 2009
- Fellow, Foundation for Intelligent Physical Agents, 1997

Funded research contracts, grants and gifts

(Principal or Co-Principal Investigator, unless otherwise noted)

University of Maryland, Baltimore County

- Optimizing Knowledge Graph Reasoning for High-Performance Computing Environments, DoD, 2023-.
- Agile Life-cycle Management of Data Exchange Standards: PI, \$139K, NIST, 2021-2022.
- Collaborative Research: EAGER SaTC-EDU: Artificial Intelligence and Cybersecurity: From Research to the Classroom, PI, \$220K, NSF (#2114892), 2021-2024.
- ProCure Enhancing Information Assimilation for COVID19 like Events, PI of UMBC portion, in Collaboration with GE Research, IARPA, 2020-2021.
- OnRamp II Reseaech, PI, \$250K, DoD, 2020-2021.
- Life-cycle Management of Shop-Floor-to-Top-Floor Manufacturing Services, PI, \$135K, NIST, (#70NSNB20H029), 2020-2021.
- OnRamp II Program, PI, National Security Agency, 2020-
- Life-cycle Management of Trustworthy Shop-Floor-to-Top-Floor Manufacturing Services, PI, \$132K, NIST (#70-NANB19H025), 2019-2020.
- SBIR Phase II: SunDIAL: Slot DIScovery And Linking, \$113K, NSF (#1758600), 2018-19, subcontractor to Red-Shred Inc.
- Delegated Access Control using Attribute-Based Encryption, ONR, CO-PI (K. Joshi PI), \$220K, 2017-2021
- Methods and Tools for Crowdsourced, Model-Driven Messaging Specification Standards in Manufacturing Integrations, PI, \$195K, NIST (#00012145), 2017-19
- IPA Agreement, DoD, \$32K 2017-18
- Research Gift from Northrop Grumman, PI, \$50K, 2017
- Accelerated Congitive Cybersecurity, Research Gift from IBM, CO-PI, 2016-19
- STTR Phase I: SunDIAL: Slot Discovery And Linking, CO-PI, \$225K, NSF IPP, 2016 #1549697
- IPA Agreement, DoD, \$24K, 2016-16
- Populating Knowledge Bases with Information Extracted from Text Documents, IBM Faculty Award, \$40K, 2015
- Automatically Generated Semantic Annotations, CO-PI, \$100K, Maryland Industrial Partnerships, 2015-16
- Ensuring Secure Cloud Services using Policy Based Approaches, CO-PI, \$333K, Office of Naval Research, 2015-18
- Semantic Open Information Extraction for RFPs, PI, \$100K, Maryland Industrial Partnerships (#5423), 2014-15
- Semantic Modeling for Smart Manufacturing Architecture and Solution Stack, PI, NIST (#70NANB14H269), \$396K , 2014-17
- EarthCube Building Blocks: Collaborative Proposal: GeoLink - Leveraging Semantics and Linked Data for Data Sharing and Discovery in the Geoscience, CO-PI, NSF, \$417K, 2014-17. #1440202
- EAGER: Collaborative Research: EarthCube Building Blocks, Leveraging Semantics and Linked Data for Geoscience Data Sharing and Discovery, PI, NSF ICER, \$75K, 2013-14. #1354693
- ACTIVE (Active Computing Teaching and InnoVation Environment) Center, CO-PI, \$19K, UMBC Hrabowski Fund for Academic Innovation, 2013.
- TWC: Medium: Collaborative Proposal: Policy Compliant Integration of Linked Data, NSF SaTC (#1228198), PI, \$400K, 2012-15. #1228673
- EAGER: T2K: From Tables to Knowledge, NSF CISE IIS, CO-PI, \$200K, 2012-14. #1250627
- Information-rich programming for semantically enriched web tables, PI, Microsoft, \$50K, 2012-13
- CDI-Type II: GLOBE: Evolving New Global Workflows for Land Change Science, CO-PI, NSF CISE CNS, \$1.93M, 2011-15 #1125210
- Workshops on Distributed Infrastructure for Security Monitoring and Intelligence Extraction, PI, NSF CNS, \$50K, 2009-11 #0956569
- NetSE: Large: Collaborative Research: Platys: From Position to Place in Next Generation Networks, PI, NSF CISE IIS, \$700K, 2009-13 #0910838)
- Inferring the semantics of structured and unstructured data, Microsoft External Research, \$100K, 2009-10
- Understanding RSM: Relief Social Media, Office of Naval Research (subcontract from Lockheed Martin), \$135K, 2009-11
- A Framework for Managing the Assured Information Sharing Lifecycle, PI, Multi-disciplinary University Research Initiative, AFOSR, \$7.5M, 2008-13

- Policy-based WAN Configuration and Management, DARPA Phase II STTR with Shared Spectrum Company, \$224K, 2008-2009
- Funding for U.S. students to Attend the 2008 International Semantic Web Conference, CO-PI, NSF; \$20K, 2008-2009 #0831017
- Travel Support for U.S.-Based Students to Attend 8th International Semantic Web Conference, PI, NSF, \$20K, 2009-10 #0942320
- Modeling influence, bias and information flow in Social Media, PI, Google, \$60K, 2008-09
- Modeling bias, influence and information flow in social media, PI, Microsoft Research, \$55K, 2008-09
- CT-T: Collaborative Research: A Semantic Framework for Policy Specification and Enforcement in a Need to Share Environment, PI, NSF, \$50K, 2007-08. #0716627
- SPINTEL:Information Quality for the Intelligence Analysis, Lockheed-Martin Advanced Technology Laboratory, \$40K, 2007
- Policy-based WAN Configuration and Management, DARPA Phase I STTR with Shared Spectrum Company, \$40K, 2006-07
- National Biological Information Infrastructure (NBII) and UMBC Invasive Species Collaboration Project, US Geological Survey, \$5K, 2005
- Supporting Large Scale Computational Research in Autonomic Systems, Bioinformatics and the Environmental Sciences, CO-PI, IBM, equipment award, 2005
- Context Aware Surgical Training, University of Maryland Medical Center, PI, \$168K, 2006-2008
- Trauma Pod middleware, DARPA (via University of Maryland Medical System), PI, \$200K, 2005-07 [link](#)
- Indexing and retrieving semantic web documents, PI, Fujitsu Labs of America, \$20K, 2005
- Computational Support for Research in Large-Scale Autonomic Systems, Bioinformatics, and Environmental Sciences, CO-PI, IBM Shared University Research, equipment award, 2004
- Research support for task computing, PI, Fujitsu Labs of America, \$56K, 2004-05
- ITR: Science on the Semantic Web: Prototypes in Bioinformatics, PI, NSF, 2003-08, \$2.35M #0326460
- ITR-SemDis: Discovering Complex Relationships in Semantic Web, CO-PI, NSF, \$453K, 2003-05 #0325172
- Trust and security for the Semantic Web, PI, NSF, \$240K, 2003-06 #0242403
- Research in pervasive computing, PI, Fujitsu Labs of America, \$15K, 2003
- An Eclipse IDE for Security, Trust and Privacy Policies, CO-PI, IBM, \$25K, 2003
- Research on advanced information systems for mobile computing, the semantic web and bioinformatics, CO-PI, IBM Shared University Research, equipment award, 2003
- National Science Foundation, Profile Driven Architecture for Data Management in Pervasive Environments, CO-PI, \$153,190, 2002-05. #0209001
- National Science Foundation, Agent Oriented Approaches to a Ubiquitous Grid, CO-PI, \$480,726, 2002-05 #0203958
- Intelligent agents for electronic service registration, discovery, and negotiation, PI, Hewlett Packard, 2002, \$30K
- NGS: Workshop on Manufacturing Software Integration Research: Status and Future Directions, National Science Foundation, CO-PI, \$20K, 2001-02
- Intelligent agents for electronic service registration, discovery, and negotiation, Hewlett Packard, 2001, \$30K
- Research in Agent Communication Languages, Fujitsu Corporation, \$30K, 2000-01
- Home Automation Service Discovery, Aether Systems Inc, CO-PI, \$133K, 2000
- Dynamic Negotiation Agents in Mobile Computing, NSF, PI, \$174K, 2000-03. #0070802
- DAML Tools for supporting Intelligent Information Annotation, Sharing and Retrieval, DARPA, \$2M, 2001-06 [link](#)
- Research in Agent Communication Languages, Fujitsu Corporation, \$40K, 1999-00
- Coordinated Agent Test and Demonstration Environment, PI, subcontract to Global InfoTek for DARPA COABS program (BAA98-01), \$460K, 1998-01
- Research in Agent Communication Languages, Fujitsu Corporation, \$40K, 1998-99
- Extended Enterprise Coalition for Integrated Collaborative Manufacturing Systems, PI, \$775K, 1998-00. NIST ATP/TIMA program
- Security for software agents, PI, \$50K, DoD, 1997-8
- Computer Integrated Knowledge Systems, PI, \$50K, NIST, 1997-98
- An agent-based framework for integrated intelligent Planning-execution, PI. \$900K, NIST ATP/TIMA, 1996-99
- A Capability Package Supporting Evolutionary Views of Lifecycle Versions, Elements and Rationales, CO-PI. \$160K, DARPA, 1996-99
- An Agent-based Architecture for Large-Scale Document Information Systems, CO-PI, \$260K, DoD, 1994-97
- A Study to Assess the Usefulness of Cyc in a Mediated Architecture, CO-PI. DoD, \$50K, 1995-96

- Research on Unitree Mass Storage System, \$31K, NASA/USRA, 1994-95
- Intelligent Integration of Knowledge-based Systems, PI, \$160K, DARPA, with Unisys & SUNY Buffalo, 1994-96
- Study and Evaluation of Persistent Object Base Systems, \$159K, NIST, 1994-96
- Research on Digital Libraries and Computer Systems Performance, \$67K, NASA, 1993-94
- AASERT Grant for Intelligent Agent Protocols, \$70K, Air Force Office of Scientific Research, 1993-95
- Intelligent Agent Protocols, \$109K, Air Force Office of Scientific Research, 1992-95
- A Development Environment for Spoken Language Systems, \$1K, UMBC DRIF, 1992

Unisys

- Persistent Storage Technology for Planning and Scheduling, Defense Advanced Research Projects Agency (DARPA/ISTO) and Rome Laboratory, \$2.5M, 1993-95
- Intelligent Database Interface for Knowledge-Based Planning and Scheduling, DARPA/ISTO and Rome Air Development Center, \$1.5M, 1991-93
- Human-Machine Interface Tools, internal research and development project, Unisys Custom Systems Div., 1989
- Intelligent System Server, IRAD, Unisys Custom Systems Div., 1989

University of Pennsylvania

- An Expert System for the Design of Injection Molded Packaging, CO-PI, Benjamin Franklin Partnership, \$50K, 1987
- Artificial Intelligence Research and Training, Internal Revenue Service, CO-PI, \$300K, 1987-88
- Research in Natural Language, CO-PI, DARPA and ONR, \$2.1M 1986-89
- Apple Development Grant, equipment grant of \$8K, 1986
- Techniques for the Acquisition and Maintenance of Knowledge Bases, Digital Equipment Corporation, 1986-87, \$60K
- An Interactive CAD/CAM System for the Engineering Design of Injection Molded Plastic Parts, co-PI, \$300K, Scott Paper Company, 1986-87
- Distributed Expert Systems, PI, \$75K, Army Research Office, 1986-87
- Equipment Grant, Apple, \$10K, 1986
- Artificial Intelligence Research and Training, Internal Revenue Service, co-PI, \$300K, 1985-86
- HP Prism Grant, Hewlett-Packard, CO-PI, Equipment Grant, \$3.3M, 1985-88
- Apple Development Grant, Apple, \$6K, 1985
- Scheme Software and Hardware, Texas Instruments, \$6K, 1985
- IBM Faculty Development Award, \$100K, 1983-84
- Natural Interfaces to Expert Systems, Equipment Grant, Hewlett-Packard Research Partnership Program, co-PI, \$140K, 1983
- A Knowledge Based Approach to Intelligent Interactive Help Systems, NSF Research Initiation Grant, \$100K, 1982-84, #8120252

Patents

- Automating Cloud Services Lifecycle Through Semantic Technologies, US 20160149769 A1, 16 May 2016
- System and method for semantic integration of heterogeneous data sources for context aware intrusion detection, US 20140337974 A1, 13 November 2014

Teaching and mentoring

Dissertations supervised

- Hakju Oh, *Agile Lifecycle Management of Standards for Data Exchange*, May 2022

- Ramin Ayanzadeh, *Leveraging Artificial Intelligence to Advance Problem-Solving with Quantum Annealers*, co-advised with M. Halem, 2020
- Taneeya Satyapanich, *Modeling and Extracting Information about Cybersecurity Events from Text*, December, 2019
- Ankur Padia, *Joint Models to Refine Knowledge Graphs*, co-advised with Francis Ferraro, October 2019
- Muhammad Mahbubur Rahman, *Understanding the Logical and Semantic Structure of Large Documents*, 2018
- Abhay Lokesh Kashyap, *Deep Representation of Lyrical Style and Semantics for Music Recommendation*, September 2017
- Prajit Kumar Das, *Learning and Executing Energy Efficient, Context-Dependent Rules for Privacy and Security Management on Mobile Devices*, co-advised with Anupam Joshi, September 2017
- Jennifer Sleeman, *Dynamic Data Assimilation for Topic Modeling, Heterogeneous Data*, co-advised with Milton Halem, 2017
- Robert H. Holder, III, *Rapid Plan Adaptation Through Offline Analysis of Potential Plan Disruptors*, co-advised with Marie desJardins, May 2016
- Varish Mulwad, *TABEL – A Domain Independent and Extensible Framework for Inferring the Semantics of Tables*, 2015
- Lushan Han, *Schema Free Querying of Semantic Data*, 2014
- Joel Sachs, *Supporting citizen science and biodiversity informatics on the semantic web*, 2013
- Karuna Joshi, *Semantically Rich, Policy Based Framework to Automate Lifecycle of Cloud Based Services*, co-advised with Yelena Yesha, 2012
- 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*, 2010
- Akshay Java, *Mining Social Media Communities and Content*, October 2008
- Pranam Kolari, *Detecting Spam Blogs: An Adaptive Online Approach*, 2007
- Olga Ratsimore, *Coordination by bartering electronic goods and services*, 2007
- Li Ding, *On Boosting Semantic Web Data Access*, March 2006
- Harry Chen, *An Intelligent Broker Architecture for Pervasive Context-Aware Systems*, 2004
- Lalana Kagal, *A Policy-Based Approach to Governing Autonomous Behavior in Distributed Environments*, September 2004
- Xiaocheng Luan, *Adaptive Middle Agent for Service Matching in the Semantic Web: A Quantitative Approach*, co-advised with Yun Peng, 2004
- Youyong Zou, *Agent-Based Services for the Semantic Web*, 2004
- Olga Streltchenko, *Exploring Trading Dynamics in a Derivative Securities Market of Heterogeneous Agents*, co-advised with Charles Nicholas, 2003
- R. Scott Cost, *Conversations and Protocols for Software Agents*, 1999
- Muhammad Abdallah Rabi, *Relationships Among Security and Algebraic Properties of Cryptographic Objects, and a Security Infrastructure for Agent Communication Languages*, co-advised with A. Sherman, 1998
- Ellis Clarke, *Knowledge discovery in historical databases*, 1998
- Michael Grasso, *Speech Input in Multimodal Environments: Effects of Perceptual Structure on Speed, Accuracy, and Acceptance*, co-advised with D. Ebert, 1997
- 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, co-advised with T. Shortliff, 1989
- Robert Kass, *Automatic Acquisition of User Models in Cooperative Advising Systems*, University of Pennsylvania, 1988

M.S. Theses supervised

- Ratnadeep Gajanan Mangalvedhekar, 2016, User Interaction Framework for Tabel, a Domain Independent Framework for Inferring Semantics of Tables
- Swati Nandakishor Vyavahare, 2014, Schema Free Interface and the Analysis of Semantic Datasets
- Vikas Bansal, 2014, RecoloringWeb Pages for Color Vision Deficiency Users
- Manish Padmakar Chavan, 2014, Developing a Cybersecurity Text Corpus and its Application for Augmenting Semantic Text Similarity
- Adam J Shook, 2013, Nimbus: Scalable, Distributed, in-Memory Data Storage

- Arnav Prabodh Joshi, 2013, Linked Data for Software Security Concepts and Vulnerability Descriptions
- Ravendar Lal, 2013, Information Extraction of Cyber Security Related Terms and Concepts from Unstructured Text
- Nikhil Puranik, 2012, A Specialist Approach for the Classification of Column Data
- Amey Sane, 2012, Predicting the Activities of Mobile Phone Users with Hidden Markov Models
- Nagapradeep Chinnam, 2011, Group Recognition in Social Networks
- Radhika D Dharurkar, 2011, Context-Aware Middleware for Activity Recognition
- Akshaya Murali Iyengar, 2011, Estimating Temporal Boundaries for Events using Social Media Data
- Mohit Naresh Kewalramani, 2011, Community Detection in Twitter
- Amit Mahale, 2011, Group Centric Information Sharing using Hierarchical Models
- William Murnane, 2010, Improving Accuracy of Named Entity Recognition on Social Media Data
- Krishnamurthy Koduvayur Viswanathan,, 2010, Text Based Similarity Metrics and Delta for Semantic Web Graphs
- Tejas Vinay Lagvankar, 2010, Collaborative Data Gathering using Context-Aware Mobile Devices
- Anand Karandikar, 2010, Clustering Short Status Messages: A Topic Model Based Approach
- Varish Mulwad, 2010, T2LD - an Automatic Framework for Extracting, Interpreting and Representing Tables as Linked Data
- Mansi Radke, 2008, Geotagging for the Blogosphere
- Anubhav Kale, 2007, Modeling Trust and Influence on Blogosphere using Link Polarity
- Sandeep Balijepalli, 2007, Blogvox2: A Modular Domain Independent Sentiment Analysis System
- Andriy Parafinyk, 2007, Using the Semantic Web to Support Knowledge Integration, Retrieval and Expansion for Ecoinformatics
- Pavan Reddivari, 2006, A policy-based system to determine access control in RDF stores
- Balaji Viswanathan, 2006, MISSION: Multiagent Insitutions for Sensor Networks
- Mohindersingh Chopra, 2005, Applying policy based access control and XML digital signatures for security in pervasive computing environments
- Payam Fard. 2003, Reasoning with DAMLJessKB for semantic web
- Urvi M. Shah, 2002, Information retrieval on the semantic web
- Mahesh Gandhe, 2002, SweetJess : DamlRuleML inference using Jess
- Naveen Srinivasan, 2002, Enabling peer-to-peer service discovery in agent environment
- Harry Lik Chen, 2000, Developing a dynamic distributed intelligent agent framework based on the Jini architecture
- James McGuire, A Hierarchical Database Model for a Logic Programming Language, 1988, University of Pennsylvania
- Donald Drager, GUMS 1 : A General User Modeling System, University of Pennsylvania
- Jeff Shrager, Invoking a Beginner's Aid Processor by Recognizing JCL Goals, 1981, University of Pennsylvania

Courses Taught

University of Maryland Baltimore County

- Computer Science I (CMSC201)
- Programming Languages (CMSC331)
- Database Management Systems (CMSC461)
- Introduction to Artificial Intelligence (CMSC471)
- Basic Research Skills and Methods (CMSC 601)
- Principles of Database Systems (CMSC661)
- Principles of Artificial Intelligence (CMSC671)
- Communication Skills (CMSC692)
- Advanced Artificial Intelligence (CMSC771)
- Theory and practice of Knowledge Representation (CMSC771)
- Special topics in Computer Science (CMSC 491, 691 and/or 891) on Intelligent Agents, Semantic Web, Web of Data, Knowledge Graphs, Teaching CS1 in Python Intelligent Information Systems

University of Pennsylvania, Dept. of Computer and Information Science, School of Engineering and Applied Science

- Introduction to Computing (undergraduate)

- Data Structures (undergraduate)
- Programming Languages and Techniques (undergraduate)
- Interactive Systems (undergraduate)
- Programming Languages and Techniques (graduate)
- Introduction to Artificial Intelligence (graduate)
- Advanced Topics in Artificial Intelligence (graduate)
- Seminar on Natural Language Processing (graduate)
- Decision Support Systems (graduate, Dept. of Decision Sciences, Wharton School of Business)

Professional service

Advisory boards, studies and standards activities

- AAAI President's Fellows Advisory Board, 2019-
- Advisor, American Art Collaborative, 2014-16. [link](#)
- Member (invited expert), World Wide Web Consortium (W3C) CSV on the Web Working Group, 2014-2015.
- 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 (W3C) 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), 1997-2006
- Councilor of the American Association for Artificial Intelligence (AAAI), 1994-97
- 1991 NSF Presidential Young Investigatory review board
- Advisory board, DARPA/NSF Knowledge Representation Standards Initiative, 1990-1996

Current Editorial Activities

- Transactions on Graph Data and Knowledge, Advisory Board, 2023-.
- special issue co-editor, Journal of Web Semantics, Community-based Knowledge Bases and Knowledge Graphs, 2020-2022

Past Editorial Activities

- Editor-in-chief, Journal of Web Semantics, Elsevier, 2005-2016
- Co-editor, Viewpoints section, Communications of the Association for Computing Machinery, 2013-2022
- Editorial board, Int. Journal of Agent-Oriented Software Engineering, InderScience, 2008-2011
- Editorial Board, Artificial Intelligence Review, Springer, 1988-1998
- 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”, v5n11, Nov. 1985.

Conference and workshop activities

- Local arrangements, 2024 International Semantic Web Conference
- Co-General Chair, IEEE Intelligence and Security Informatics, Baltimore, MD, 2015.
- Organizer, Beyond Watson Workshop, NSF and DoD, Hanover, MD, 2014.
- Co-chair, Ontology Summit 2014 Symposium, Arlington VA, 2014.
- Organizer, AAAI Fall Symposium on Open Government Knowledge: AI Opportunities and Challenges, 2011.
- Organizer, AAAI Workshop on Activity Context Representation: Techniques and Languages, 2011. [link](#)
- Organizer, NSF-IUSSTF Workshop on Distributed Infrastructure for Security Monitoring and Intelligence Extraction Indian Institute of Science, Bangalore, 2010.
- Organizer, Workshop on Semantics for the Rest of Us, WWW Conf., 2009.
- General chair, Int. Semantic Web Conf., Karlsruhe DE, 2008. [link](#)
- Organizer, Int. Conf. on Weblogs and Social Media, Seattle, 2008. [link](#)
- Organizer, AAAI Fall symposium on Regarding the “Intelligence” in Distributed Intelligent Systems, 2007.
- Co-Chair, Artificial Intelligence and the Web, a special technical paper track AAAI, Boston, 2007.
- Co-Chair, Artificial Intelligence and the Web, a special technical paper track AAAI, Boston, 2006.
- Organizer, AAAI Fall Symposium on Semantic Web for Collaborative Knowledge Acquisition, 2006.
- Organizer, ECAI Workshop on Semantic Web Technologies for Ubiquitous and Mobile Applications, 2006. [link](#)
- Organizer, Workshop on Models of Trust for the Web, 15th Int. World Wide Web Conf., 2006, Edinburgh. [link](#)
- Organizer, Semantic Web and Policy Workshop, 4th Int. Semantic Web Conf., Galway, Ireland, 2005. [link](#)
- Organizer, Policy Management for the Web Workshop, 14th Int. World Wide Web Conf., Chiba, Japan, 2005. [link](#)
- Organizer, Workshop on Ambient Intelligence - Agents for Ubiquitous Environments, Conf. on Autonomous Agents and Multiagent Systems, Utrecht, 2005. [link](#)
- Program co-chair, Mobiquitous 2004, The First Annual Int. Conf. on Mobile and Ubiquitous Systems: Networking and Services, Boston, 2004. [link](#)
- Organizer, Workshop on Ubiquitous Agents, Conf. on Autonomous Agents and Multiagent Systems, 2004. [link](#)
- Organizer, Workshop on Web-services and Agent-based Engineering, Conf. on Autonomous Agents and Multiagent Systems, New York, 2004. [link](#)
- Organizer, Workshop on Ubiquitous Agents on embedded, wearable, and mobile devices, Autonomous Agents and Multiagent Systems, 2002. [link](#)
- Organizer, Workshop on Ontologies for Agent Systems, Autonomous Agents and Multiagent Systems, 2002.
- Organizer, Workshop on Agentcities: Research in Large Scale Open Agent Environments, Autonomous Agents and Multiagent Systems, 2002.
- Track chair, Workshop on Agent Theories, Architectures, and Languages (ATAL), Seattle, WA, 2001.
- Organizer, AAAI Workshop Knowledge Based Electronic Markets, 2000. <http://www.cs.umbc.edu/kbem/>
- Organizer, AAAI Workshop on Artificial Intelligence for Electronic Commerce, 1999. [link](#)
- Organizer, CRA Effective Teaching Workshop, Madison, 1998.
- Program co-chair, ACM Autonomous Agents Conference, 1998.
- Organizer, *2nd CIKM Workshop on Intelligent Information Agents*, Gaithersburg MD, 1995.
- Associate Chair, AAAI Symposium Series, 1995-8.
- Steering Committee, *IEEE Conf. on Artificial Intelligence for Applications*, 1990-94.
- Organizer, *CIKM Workshop on Intelligent Information Agents*, Gaithersburg MD, 1994.
- Co-General Chair, Second ACM Int. Conf. on Information and Knowledge Management, 1993, Washington, DC.
- Co-General Chair, First Int. Conf. on Information and Knowledge Management, 1992, Baltimore, MD.
- General chair, *8th IEEE Conf. on Artificial Intelligence for Applications*, Monterey, March, 1992.
- Program Chair, *7th IEEE Conf. on Artificial Intelligence Applications*, Miami, 1991.
- Co-Organizer, *AAAI Workshop on Knowledge Base Management Systems*, Boston, August, 1990.

Program committee member (last five years)

- 20th Int. Conf. on Practical Applications of Agents and Multi-Agent Systems, 2022

- 6th Workshop on Noisy User-generated Text at EMNLP, 2020
- 2nd Workshop on Interaction-Based Knowledge Sharing (WINKS-2), 2019
- The Joint Ontology Workshops, Medical University of Graz, 2019.
- Journal Track, Int. Semantic Web Conf, 2019.
- Knowledge Graph Technology and Applications Workshop, WWW 2019.
- Area chair for Social Media, 57th Annual Meeting of the Association for Computational Linguistics, 2019.
- Senior program committee, 28th Int. Joint Conf. on Artificial Intelligence, 2019.
- Information Extraction track, 2019 Conf. of the North American Chapter of the Association for Computational Linguistics
- PAL: Privacy-Enhancing Artificial Intelligence and Language Technologies, AAAI Spring Symposium, 2019.
- The Web Conf., San Francisco, 2019
- Int. Semantic Web Conf., 2018
- Workshop on Knowledge Base Construction, Reasoning and Mining co-located with WSDM'18, 2018.
- Web Content Analysis, Semantics, and Knowledge track, 27th Web Conference, Lyon, France, 2018
- 25th Int. World Wide Web Conf., Semantics and Big Data track, 2016

Invited talks (last five years)

- 2024 *invited speaker*: After 75 Years of AI, Can Machines Think?, UMBC Library AI, Privacy, and Ethics Symposium, April 2024.
- 2023 *invited speaker*: What generative AI systems know about cybersecurity, AI for Maryland CS Teachers series, Maryland Center for Computing Education, October 12, 2023.
- invited speaker*: Evaluating what generative AI systems know about cybersecurity, INCS-CoE Expert Community Seminar, September 2023.
- invited speaker*: AI Generative Tools: Overview and Implications for Education, USM Board of Regents meeting, June 2023.
- 2020 *invited speaker*: Constructing and Using Knowledge Graphs for Cybersecurity, OMG AI Platform Task Force Quarterly meeting, June 2020.
- 2019 *invited speaker*: Fifty years of using knowledge graphs for language understanding, Knowledge Representation & Reasoning Meets Machine Learning Workshop, MIT, Sept. 2019

Publications and collections

Additional information is available on Google Scholar, DBLP, and Semantic Scholar.

2024]

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