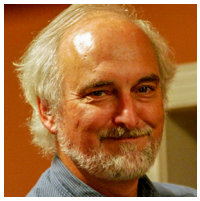
Tim Finin
Curriculum Vitae, September 2, 2025

Computer Science and Electrical Engineering
University of Maryland, Baltimore County
1000 Hilltop Circle, Baltimore MD 21250
voice:+1-410-455-3522, fax:+1-410-455-3969
finin@umbc.edu, https://umbc.edu/ finin



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, MIT, 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
- **2023-** Director, UMBC Center for Artificial Intelligence
- **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

- Workshop on Human-Machine Integrated Formations, CO-PI, $52,285, U.S. Army Research Laboratory, 2024-2025.
- Optimizing Knowledge Graph Reasoning for High-Performance Computing Environments, CO-PI, $290K, DoD, 2023-2025.
- 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), 2021-2025.
- 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 Geosciencese, 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 bioiformatics, 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-12278740-B2, 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, Polcy 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, *Wikitology: 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 Parafiynyk, 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

- Maryland Responsible AI Council, 2024-
- 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

- Co-Organizer, Human-Machine Integration Workshop, UMBC, 21-22 August 2024.
- Local arrangements, 2024 International Semantic Web Conference, 2023-2024
- 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)

2025 *invited speaker:* After 75 Years of AI, Can Machines Think?, Charlestown Retirement Community Seminar , April 10, 2025.

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.

2025

- Sai Sree Laya Chukkapalli, David Ledbetter, Anupam Joshi, Tim Finin, and Jade Freeman, Impostors Among Us: an Agentic Approach to Identifying and Resolving Conflicts in Collaborative Network Environments, IEEE Military Communications Conference, October, 2025.

- Aritran Piplai, Anantaa Kotal, Sudip Mittal, Karuna Pande Joshi, Tim Finin, and Anupam Joshi, Enhancing Trustworthiness in LLM-Generated Code: A Reinforcement Learning and Domain-Knowledge Constrained Approach, CodeBot '25 workshop, February, 2025.

2024

- Ankur Padia, Frank Ferraro, and Tim Finin, Enhancing Knowledge Graph Consistency through Open Large Language Models: A Case Study, AAAI-MAKE: Empowering Machine Learning and Large Language Models with Domain and Commonsense Knowledge, AAAI Spring Symposia, March 2024.
- Aamir Hamid, Hemanth Reddy Samidi, Tim Finin, Primal Pappachan, Roberto Yus, GenAIPABench: A Benchmark for Generative AI-based Privacy Assistants, Proceedings on Privacy Enhancing Technologies (PoPETs), Volume 2024, number 3, 2024.
- Hakju Oh, Boonserm (Serm) Kulvatunyou, Albert Jones, and Tim Finin, Employing Word-Embedding for Schema Matching in Standard Lifecycle Management, Journal of Industrial Information Integration, Elsivier, to appear, 2024.

2023

- Aamir Hamid, Hemanth Reddy Samidi, Tim Finin, Primal Pappachan, and Roberto Yus. "A Study of the Landscape of Privacy Policies of Smart Devices, arXiv preprint arXiv:2308.05890, Dec. 2023.
- Vijay Kumar, Varish Mulwad, Jenny Weisenberg Williams, Tim Finin, Sharad Dixit, and Anupam Joshi, Knowledge Graph-driven Tabular Data Discovery from Scientific Documents Tabular Data Analysis, TaDA'23: Tabular Data Analysis Workshop, VLDB, Sept. 2023.
- Varish Mulwad, Vijay S Kumar, Jenny Weisenberg Williams, Tim Finin, Sharad Dixit, Anupam Joshi, Towards Semantic Exploration of Tables in Scientific Documents, Workshop on Semantic Technologies for Scientific, Technical and Legal Data, Proc. ESWC 2023 Workshops and Tutorials, Extended Semantic Web Conference, May 2023. **Best paper award.**
- Aritran Piplai, Anupam Joshi, and Tim Finin, Offline RL+CKG: A hybrid AI model for cybersecurity tasks, AAAI Spring Symposium on Challenges Requiring the Combination of Machine Learning and Knowledge Engineering (AAAI-MAKE 2023), March 2023.
- Varish Mulwad, Tim Finin, Vijay Kumar, Jenny Weisenberg Williams, Sharad Dixit, Anupam Joshi, A Practical Entity Linking System for Tables in Scientific Literature, 3rd Workshop on Scientific Document Understanding, AAAI, Feb., 2023.

2022

- Aritran Piplai, Mike Anoruo, Kayode Fasaye, Anupam Joshi, Tim Finin, Ahmad Ridley, Knowledge Guided Two-player Reinforcement Learning for Cyber Attacks and Defenses, Int. Conf. on Machine Learning and Applications, IEEE, Dec. 2022.
- Priyanka Ranade, Sanorita Dey, Anupam Joshi, Tim Finin, Computational Understanding of Narratives: A Survey, IEEE Access, v10, pp. 101575-101594, September 2022, DOI:10.1109/ACCESS.2022.3205314.
- Casey Hanks, Michael Maiden, Priyanka Ranade, Tim Finin, and Anupam Joshi,Recognizing and Extracting Cybersecurity-relevant Entities from Text, Workshop on Machine Learning for Cybersecurity, International Conference on Machine Learning, PLMR, July 2022.
- Ramin Ayanzadeh, John Dorband, Milton Halem, Tim Finin, Quantum-Assisted Greedy Algorithms, Int. Geoscience and Remote Sensing Symposium (IGARSS), IEEE, July 2022.
- Ankur Padia, Francis Ferraro, and Tim Finin, Jointly Identifying and Fixing Inconsistent Readings from Information Extraction Systems, 3rd Workshop on Knowledge Extraction and Integration for Deep Learning Architectures, 60th Annual Meeting of the Association for Computational Linguistics, May 2022.
- Casey Hanks, Michael Maiden, Priyanka Ranade, Tim Finin, and Anupam Joshi, CyberEnt: Extracting Domain Specific Entities from Cybersecurity Text, Mid-Atlantic Student Colloquium on Speech, Language and Learning, April 2022.
- Sai Sree Laya Chukkapalli, Anupam Joshi, Tim Finin, and Robert F. Erbacher, CAPD: a context-aware, policy-driven framework to support secure and resilient IoBT Operations, Artificial Intelligence and Machine Learning for Multi-Domain Operations Applications IV, SPIE Defense + Commercial Sensing, April 2022.

2021

- Priyanka Ranade, Aritran Piplai, Anupam Joshi, and Tim Finin, CyBERT: Contextualized Embeddings for the Cybersecurity Domain, Workshop on Big Data for Cybersecurity, IEEE International Conference on Big Data, December 2021.
- Maithilee Joshi, Karuna P. Joshi and Tim Finin, Delegated Authorization Framework for EHR Services using Attribute Based Encryption, IEEE Transactions on Services Computing, pp. 1612-1623, v14, n6, Nov-Dec, 2021.
- Lavanya Elluri, Sai Sree Laya Chukkapalli, Karuna Pande Joshi, Tim Finin, Anupam Joshi, A BERT Based Approach to Measure Web Services Policies Compliance with GDPR, IEEE Access, October 2021.

- Maithilee Joshi, Karuna P. Joshi and Tim Finin, Delegated Authorization Framework for EHR Services using Attribute Based Encryption, 2021 IEEE World Congress on Services, J1C2 track, IEEE, Sept. 2021.
- Ramin Ayanzadeh, John Dorband, Milton Halem, and Tim Finin, Multi-Qubit Correction for Quantum Annealers, Nature Scientific Reports, Springer, July 2021
- Priyanka Ranade, Anupam Joshi and Tim Finin, Study shows AI-generated fake reports fool experts, The Conversation, June 2021
- Jennifer Sleeman, Tim Finin, and Milton Halem, Understanding Cybersecurity Threat Trends through Dynamic Topic Modeling, Frontiers in Big Data, Frontiers Media, 2021.
- Priyanka Ranade, Aritran Piplai, Sudip Mittal, Anupam Joshi, and Tim Finin, Generating Fake Cyber Threat Intelligence Using Transformer-Based Models, Int. Joint Conf. on Neural Networks, IEEE, 2021.

2020

- Aritran Piplai, Sudip Mittal, Anupam Joshi, Tim Finin, James Holt, and Richard Zak, Creating Cybersecurity Knowledge Graphs from Malware After Action Reports, IEEE Access, Nov. 2020.
- Sai Vallurupalli, Jennifer Sleeman, Tim Finin, Fine and Ultra-Fine Entity Type Embeddings for Question Answering, Int. Semantic Web Conf., Nov. 2020.
- Aritran Piplai, Sudip Mittal, Mahmoud Abdelsalam, Maanak Gupta, Anupam Joshi, Tim Finin, Knowledge Enrichment by Fusing Representations for Malware Threat Intelligence and Behavior, Int. Conf. on Intelligence and Security Informatics, IEEE, Nov. 2020.
- Ramin Ayanzadeh, John Dorband, Milton Halem, and Tim Finin, Post-Quantum Error-Correction for Quantum Annealers, arXiv:2010.00115 [quant-ph], Sept. 2020.
- Ramin Ayanzadeh, Milton Halem, and Tim Finin, Can Artificial Intelligence Advance Quantum Information Processing?: A Study Case on AI Hybrid Quantum Annealing (poster), ACM Richard Tapia Celebration of Diversity in Computing Conference, 2020.
- Ankur Padia, Konstantinos Kalpakis, Francis Ferraro, and Tim Finin, Knowledge Graph Inference using Tensor Embedding, 17th International Conference on Principles of Knowledge Representation and Reasoning, Recently Published Research Track, Sept. 2020.
- Ramin Ayanzadeh, Milton Halem, and Tim Finin, Reinforcement Quantum Annealing: A Hybrid Quantum Learning Automata, Nature Scientific Reports, v10, n1, May 2020.
- Donald Norris, Laura Mateczun, Anupam Joshi and Tim Finin, Managing Cybersecurity at the Grassroots: Evidence from the First Nationwide Survey of Local Government Cybersecurity, Journal of Urban Affairs, pp. 1173-1195, Routledge, 2021.
- Ramin Ayanzadeh, Milton Halem, and Tim Finin, An Ensemble Approach for Compressive Sensing with Quantum Annealers, IEEE Int. Geoscience and Remote Sensing Symposium, July 2020.
- Jennifer Sleeman, Tim Finin, and Milton Halem, Temporal Understanding of Cybersecurity Threats, IEEE Int. Conf. on Big Data Security on Cloud, May 2020.
- Chan Hee Song, Dawn Lawrie, Tim Finin and James Mayfield, Gazetteer Generation for Neural Named Entity Recognition, Proc. 33rd Int. FLAIRS Conf., AAAI Press, May 2020.
- Chan Hee Song, Dawn Lawrie, Tim Finin, James Mayfield, Improving Neural Named Entity Recognition with Gazetteers, arXiv:2003.03072, March 2020.
- Taneeya Satyapanich, Tim Finin and Francis Ferraro, CASIE: Extracting Cybersecurity Event Information from Text, 34th AAAI Conf. on Artificial Intelligence, Feb. 2020.
- Ramin Ayanzadeh, Milton Halem, and Tim Finin, Reinforcement Quantum Annealing: A Quantum-Assisted Learning Automata Approach, arXiv:2001.00234 [quant-ph], Jan., 2020.

2010s

- Ramin Ayanzadeh, Milton Halem, and Tim Finin, Compressive Geospatial Analytics, American Geophysical Union Fall Meeting, Dec. 2019.
- Ankur Padia, Konstantinos Kalpakis, Francis Ferraro, and Tim Finin, Knowledge Graph Fact Prediction via Knowledge-Enriched Tensor Factorization, Journal of Web Semantics, v. 59, Elsevier, Dec. 2019.
- Ramin Ayanzadeh, Milton Halem, John Dorband and Tim Finin, Quantum-Assisted Greedy Algorithms, arXiv:1912.02362 [quant-ph], Dec. 2019.
- Varish Mulwad, Tim Finin, Zareen Syed, and Anupam Joshi, Using linked data to interpret tables, 1st Int. Workshop on Consuming Linked Data, ISWC, Nov. 2010.
- Muhammad Mahbubur Rahman and Tim Finin, Unfolding the Structure of a Document using Deep Learning, arXiv:1910.03678 [cs.CL], Sept. 2019.
- Taneeya Satyapanich, Tim Finin and Francis Ferraro, Extracting Rich Semantic Information about Cybersecurity Events, 2nd Workshop on Big Data for CyberSecurity, IEEE Int. Conf. on Big Data, Dec. 2019.

- Ankur Padia, Konstantinos Kalpakis, Francis Ferraro and Tim Finin, Reflections on: Knowledge Graph Fact Prediction via Knowledge-Enriched Tensor Factorization, Int. Semantic Web Conf., journal track proceedings, CEUR, v2576, Oct. 2019.
- Sudip Mittal, Anupam Joshi and Tim Finin, Cyber-All-Intel: An AI for Security related Threat Intelligence, arXiv:1905.02895 [cs.AI], May 2019.
- Ramin Ayanzadeh, Milton Halem and Tim Finin, SAT-based Compressive Sensing, arXiv:1903.03650 [cs.IT], March 2019.
- Donald Norris, Laura Mateczun, Anupam Joshi and Tim Finin, Cyberattacks at the Grass Roots: American Local Governments and the Need for High Levels of Cybersecurity, Public Administration Review, v79, n6, pp 805-904, 2019.
- Ramin Ayanzadeh, Seyedahmad Mousavi, Milton Halem and Tim Finin, Quantum Annealing Based Binary Compressive Sensing with Matrix Uncertainty, arXiv:1901.00088 [cs.IT], Jan 2019.
- Ankur Padia, Francis Ferraro and Tim Finin, Team UMBC-FEVER: Claim verification using Semantic Lexical Resources, Proc First Workshop on Fact Extraction and Verification (with EMNLP), Nov. 1, 2018.
- Sandeep Narayanan, Ashwinkumar Ganesan, Karuna Joshi, Tim Oates, Anupam Joshi and Tim Finin, Early detection of Cybersecurity Threats using Collaborative Cognition, 4th IEEE Int. Conf. on Collaboration and Internet Computing, Oct. 2018.
- Ankur Padia, Francis Ferraro and Tim Finin. SURFACE: Semantically Rich Fact Validation with Explanations, arXiv:1810.13223, Oct. 2018.
- Donald F. Norris, Laura Mateczun, Anupam Joshi and Tim Finin, Cyber-Security at the Grassroots: American Local Governments and the Challenges of Internet Security, Journal of Homeland Security and Emergency Management, 2018.
- Ankur Padia, Francis Ferraro and Tim Finin, KG Cleaner: Identifying and Correcting Errors Produced by Information Extraction Systems, arxiv:1808.04816, Aug. 2018.
- Jennifer Sleeman, Milton Halem and Tim Finin, Ontology-Grounded Topic Modeling for Climate Science Research, Semantic Web for Social Good Workshop, Int. Semantic Web Conf., Monterey, Oct. 2018. **Selected as best paper**, Emerging Topics in Semantic Technologies, E. Demidova, A.J. Zaveri, E. Simperl (Eds.), AKA Verlag Berlin, 2018.
- Muhammad Rahman and Tim Finin, Understanding and representing the semantics of large, structured documents, 4th Workshop on Semantic Deep Learning, Int. Semantic Web Conf., Monterey, CA, Oct. 2018.
- Sandeep Narayanan, Ashwinkumar Ganesan, Karuna Joshi, Tim Oates, Anupam Joshi, and Tim Finin, Cognitive Techniques for Early Detection of Cybersecurity Events, arXiv:1808.00116, Aug. 2018.
- Maithilee Joshi, Karuna Joshi and Tim Finin, Attribute Based Encryption for Secure Access to Cloud Based EHR Systems, 11th Int. Conf. on Cloud Computing, pp 932-935, IEEE, July 2018.
- Donald Norris, Anupam Joshi, Laura Mateczun and Tim Finin, Local governments' cybersecurity crisis in 8 charts, The Conversation, 30 April 2018.
- Ankur Padia, Arpita Roy, Taneeya Satyapanich, Francis Ferraro, Shimei Pan, Youngja Park, Tim Finin and Anupam Joshi, UMBC at SemEval-2018 Task 8: Understanding Text about Malware, Int. Workshop on Semantic Evaluation (collocated with NAACL-HLT), June 2018.
- Jennifer Sleeman, Milton Halem, Tim Finin and Mark Cane, Discovering Scientific Influence using Cross-Domain Dynamic Topic Modeling, Int. Conf. on Big Data, IEEE, December 2017.
- Muhammad Mahbubur Rahman and Tim Finin, Deep Understanding of a Document's Structure, 4th IEEE/ACM Int. Conf. on Big Data Computing, Applications and Technologies, Dec. 2017.
- Tim Finin, Dawn Lawrie, James Mayfield, Paul McNamee and Cash Costello, HLTCOE Participation in TAC KBP 2017: Cold Start TEDL and Low-resource EDL, Proc. 2017 Text Analysis Workshop, NIST, Nov. 2017.
- Benjamin Van Durme, Tom Lippincott, Kevin Duh, Deana Burchfield, Adam Poliak, Cash Costello, Tim Finin, Scott Miller, James Mayfield Philipp Koehn, Craig Harman, Dawn Lawrie, Chandler May, Max Thomas Annabelle Carrell, Julianne Chaloux, Tongfei Chen, Alex Comerford Mark Dredze, Benjamin Glass, Shudong Hao, Patrick Martin, Pushpendre Rastogi Rashmi Sankepally, Travis Wolfe, Ying-Ying Tran and Ted Zhang, CADET: Computer Assisted Discovery Extraction and Translation, 8th Int. Joint Conf. on Natural Language Processing (System Demonstrations), Nov. 2017.
- Prajit Kumar Das, Anupam Joshi and Tim Finin, Personalizing context-aware access control on mobile platforms, 3rd IEEE Int. Conf. on Collaboration and Internet Computing, October, 2017. San Jose, CA.
- Sudip Mittal, Anupam Joshi and Tim Finin, Thinking, Fast and Slow: Combining Vector Spaces and Knowledge Graphs, arXiv:1708.03310, Aug. 2017.
- Karuna Joshi and Tim Finin, Teaching machines to understand – and summarize – text, The Conversation, June, 2017.

- Maithilee Joshi, Sudip Mittal, Karuna Pande Joshi and Tim Finin, Semantically Rich Oblivious Access Control for Cloud Storage, IEEE 1st Int. Conf. on Edge Computing, June 2017.
- Donald F. Norris, Laura Mateczun, Anupam Joshi and Tim Finin, Cybersecurity Challenges to American Local Governments, 17th European Conf. on Digital Government, pp. 110-117, June 2017.
- Donald Norris, Laura Mateczun, Anupam Joshi, and Tim Finin, Cyber-Security at the Grassroots: Findings from a Nationwide Survey of Local Government CyberSecurity, 47th Annual Conference of the Urban Affairs Association, April 2017
- Donald Norris, Laura Mateczun, Anupam Joshi, and Tim Finin, Cybersecurity 2016 Survey, Summary Report of Survey Results, Technical Report, April 2017.
- Parjit Das, Anupam Joshi and Tim Finin, App behavioral analysis using system calls, Int. Workshop on The Security, Privacy and Digital Forensics of Mobile Systems and Networks, IEEE INFOCOM, May 2017.
- Donald F. Norris, Laura Mateczun, Anupam Joshi and Tim Finin, UMBC/ICMA Survey of Local Government Cybersecurity Practices, Technical Report, April 2017
- Jennifer Sleeman, Milton Halem, Tim Finin and Mark Cane, Modeling the Evolution of Climate Change Assessment Research Using Dynamic Topic Models and Cross-Domain Divergence Maps, AAAI Spring Symposium on AI for Social Good, Stanford, CA, March 2017.
- Jennifer Sleeman, Milton Halem, Tim Finin, Mark Cane, Advanced Large Scale Cross Domain Temporal Topic Modeling Algorithms to Infer the Influence of Recent Research on IPCC Assessment Reports, (poster), American Geophysical Union Fall Meeting, American Geophysical Union, Dec. 2016. link
- Karuna Pande Joshi, Aditi Gupta, Sudip Mittal, Claudia Pearce, Anupam Joshi and Tim Finin, Semantic Approach to Automating Management of Big Data Privacy Policies, Int. Conf. on Big Data, IEEE, Dec. 2016. link
- Ankur Padia, Kostantinos Kalpakis and Tim Finin, Inferring Relations in Knowledge Graphs with Tensor Decompositions, IEEE Int. Conf. on Big Data, Dec. 2016.
- Jennifer Sleeman, Milton Halem, Tim Finin and Mark Cane, Dynamic Topic Modeling to Infer the Influence of Research Citations on IPCC Assessment Reports, Big Data Challenges, Research and Technologies in the Earth and Planetary Sciences, IEEE Int. Conf. on Big Data, Dec. 2016. link
- Prajit Kumar Das, Anupam Joshi and Tim Finin. Capturing policies for fine-grained access control on mobile devices, 2nd Int. Conf. on Collaboration and Internet Computing, IEEE, Nov. 2016. link
- Karuna P. Joshi, Aditi Gupta, Sudip Mittal, Claudia Pearce, Anupam Joshi and Tim Finin, ALDA: Cognitive Assistant for Legal Document Analytics, AAAI Fall Symposium on Cognitive Assistance in Government and Public Sector Applications, AAAI Press, Nov. 2016. link
- Tim Finin, Dawn Lawrie, James Mayfield, Paul McNamee, Jessa Laspesa and Micheal Latman, HLTCOE Participation in TAC KBP 2016: Cold Start and EDL, Proc. 9th Text Analysis Workshop, NIST, Nov. 2016. link
- Taneeya Satyapanich and Tim Finin, Event Nugget Detection Task: UMBC systems, Proc. 9th Text Analysis Workshop, NIST, Nov. 2016. link
- Prajit Das, Abhay Kashyap, Gurpreet Singh, Cynthia Matuszek, Tim Finin and Anupam Joshi, Semantic knowledge and privacy in the physical web, Workshop on Society, Privacy and the Semantic Web - Policy and Technology, co-located with 15th Int. Semantic Web Conf., Oct. 2016. link
- Prajit Kumar Das, Dibyajyoti Ghosh, Pramod Jagtap, Anupam Joshi and Tim Finin, Preserving User Privacy and Security in Context-Aware Mobile Platforms, in Mobile Application Development, Usability and Security, Sougata Mukherjea (Ed.), IGI Global, Nov. 2016. Reprinted in Censorship, Surveillance, and Privacy: Concepts, Methodologies, Tools, and Applications, Information Resources Management Association, pp. 1203-1230, 2019. Reprinted in Cyber Law, Privacy, and Security: Concepts, Methodologies, Tools, and Applications, Information Resources Management Association, pp. 408-434, 2019. link
- Sudip Mittal, Prajit Kumar Das, Varish Mulwad, Anupam Joshi and Tim Finin, CyberTwitter: Using Twitter to generate alerts for Cybersecurity Threats and Vulnerabilities, IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), San Francisco, Aug. 2016. link
- Bhavani Thuraisingham, Murat Kantarcioglu, Kevin Hamlen, Latifur Khan, Tim Finin, Anupam Joshi, Tim Oates and Elisa Bertino, A Data Driven Approach for the Science of Cyber Security: Challenges and Directions, IEEE Conf. on Information Reuse and Integration, Pittsburgh, July 2016. link
- Piyush Nimbalkar, Varish Mulwad, Nikhil Puranik, Anupam Joshi and Tim Finin, Semantic Interpretation of Structured Log Files, IEEE Conf. on Information Reuse and Integration, Pittsburgh, July 2016. link
- Vaishali Narkhede, Karuna Pande Joshi, Tim Finin, SeungGeol Choi, Adam Aviv and Daniel S Roche, Managing Cloud Storage Obliviously, Int. Conf. on Cloud Computing, IEEE Computer Society, June 2016. link
- Karuna Pande Joshi, Yelena Yesha and Tim Finin, An Ontology for a HIPAA compliant cloud services, 4th Int. IBM Cloud Academy Conf., June 2016.

- Prajit Kumar Das, Sandeep Narayanan, Nitin Kumar Sharmay, Anupam Joshi, Karuna Joshi and Tim Finin, Context-Sensitive Policy Based Security in Internet of Things, IEEE Workshop on Smart Service Systems, co-located with IEEE Int. Conf. on Smart Computing, St. Louis, May 2016. link
- M. Lisa Mathews, Anupam Joshi and Tim Finin, Detecting Botnets Using a Collaborative Situational-aware IDPS, 2nd Int. Conf. on Information Systems Security and Privacy, Rome, Feb. 2016. link
- Zareen Syed, Ankur Padia, Tim Finin, Lisa Mathews and Anupam Joshi, UCO: Unified Cybersecurity Ontology, AAAI Workshop on Artificial Intelligence for Cyber Security, Feb. 2016. link
- Abhay Kashyap, Lushan Han, Roberto Yus, Jennifer Sleeman, Taneeya Satyapanich, Sunil Gandhi and Tim Finin, Robust Semantic Text Similarity Using LSA, Machine Learning and Linguistic Resources, Language Resources and Evaluation, pp. 125-161, v50, n1, Springer, March 2016. link
- Taneeya W. Satyapanich and Tim Finin, Event Nugget Detection using Thresholding and Classification Techniques, 8th Text Analysis Conf., NIST, November 2016. link
- Tim Finin, Dawn Lawrie, Paul McNamee, James Mayfield, Doug Oard, Ning Gao, Nanyun Peng, Yiu-Chang Lin, Josh MacKin and Tim Dowd, HLTCOE Participation in TAC KBP 2015: Cold Start and TEDL, 8th Text Analysis Conf., NIST, November, 2015. link
- Jennifer Sleeman, Tim Finin and Anupam Joshi, Topic Modeling for RDF Graphs, 3rd Int. Workshop on Linked Data for Information Extraction, held at 14th Int. Semantic Web Conf., pp. 48-62, CEUR Workshop Proc., vol. 1267, Oct. 2015. link
- Primal Pappachan, Roberto Yus, Prajit Kumar Das, Sharad Mehrotra, Tim Finin and Anupam Joshi, Building a Mobile Applications Knowledge Base for the Linked Data Cloud, 1st Workshop on Mobile Deployment of Semantic Technologies, 14th Int. Semantic Web Conf., Oct. 2015. link
- Adila A. Krisnadhi, Yingjie Hu, Krzysztof Janowicz, Pascal Hitzler, Robert Arko, Suzanne Carbotte, Cynthia Chandler, Michelle Cheatham, Douglas Fils, Tim Finin, Peng Ji, Matthew Jones, Nazifa Karima, Kerstin Lehnert, Audrey Mickle, Tom Narock, Margaret O'Brien, Lisa Raymond, Adam Shepherd, Mark Schildhauer and Peter Wiebe, The GeoLink Framework for Pattern-based Linked Data Integration, (poster paper), 14th Int. Semantic Web Conf., Oct. 2015. link
- Ankur Padia, Tim Finin and Anupam Joshi, Attribute-based Fine Grained Access Control for Triple Stores, 3rd Society, Privacy and the Semantic Web - Policy and Technology workshop, 14th Int. Semantic Web Conf., Oct. 2015. link
- Primal Pappachan, Roberto Yus, Prajit Kumar Das, Sharad Mehrotra, Tim Finin and Anupam Joshi, Mobipedia: A Knowledge Base for Mobile Applications, (demo paper), 14th Int. Semantic Web Conf., Oct. 2015. link
- Zareen Syed, Lushan Han, Muhammad Rahman, Tim Finin, James Kukla and Jeehye Yun, Querying Large Linked Data Resources, (poster paper), 14th Int. Semantic Web Conf., Oct. 2015. link
- Adila Krisnadhi, Yingjie Hu, Krzysztof Janowicz, Pascal Hitzler, Robert Arko, Suzanne Carbotte, Cynthia Chandler, Michelle Cheatham, Douglas Fils, Tim Finin, Peng Ji, Matthew Jones, Nazifa Karima, Kerstin Lehnert, Audrey Mickle, Tom Narock, Margaret O'Brien, Lisa Raymond, Adam Shepherd, Mark Schildhauer and Peter Wiebe, The GeoLink Modular Oceanography Ontology, 14th Int. Semantic Web Conf., Springer, Oct. 2015. link
- Zareen Syed, Tim Finin, Ankur Padia and M. Lisa Mathews, Supporting Situationally Aware Cybersecurity Systems, Technical Report EBQ-9-1, 30 September 2015. link
- Wenjia Li, Anupam Joshi and Tim Finin, SVM-CASE: An SVM-based Context Aware Security Framework for Vehicular Ad-hoc Networks, IEEE 82nd Vehicular Technology Conf., Boston, Sept. 2015. link
- Laura Zavala, Pradeep K. Murukannaiah, Nithyananthan Poosamani, Tim Finin, Anupam Joshi, Injong Rhee and Munindar P. Singh. Platys: From Position to Place-Oriented Mobile Computing, AI Magazine, v36, n2, July 2015. link
- Lushan Han, Tim Finin, Anupam Joshi and Doreen Cheng, Querying RDF Data with Text Annotated Graphs, 27th Int. Conf. on Scientific and Statistical Database Management, San Diego, June 2015. link
- Zareen Syed, Lushan Han, Muhammad Rahman, Tim Finin, James Kukla, Jeehye Yun, UMBC_Ebiquity-SFQ: Schema Free Querying System, Schema-agnostic Queries Semantic Web Challenge, 12th Extended Semantic Web Conf., Slovenia, June 2015. **Received 2015 ESWC Schema Agnostic Query Challenge Award.** link
- Zareen Syed, Tim Finin, Muhammad Rahman, James Kukla and Jeehye Yun, Discovering and Querying Hybrid Linked Data, Third Workshop on Knowledge Discovery and Data Mining Meets Linked Open Data, 12th Extended Semantic Web Conf., Portoroz Slovenia, June 2015. link
- Donald F. Norris, Anupam Joshi and Tim Finin, Cybersecurity Challenges to American State and Local Governments , 15th European Conf. on eGovernment, Univ. of Portsmouth, UK, June 2015.
- Taneeya Satyapanich, Hang Gao and Tim Finin, Ebiquity: Paraphrase and Semantic Similarity in Twitter using Skipgrams, Int. Workshop on Semantic Evaluation, co-located with NAACL HLT 2015, June 2015. link

- Travis Wolfe, Mark Dredze, James Mayfield, Paul McNamee, Craig Harman, Tim Finin and Benjamin Van Durme, Interactive Knowledge Base Population, arXiv:1506.00301, May 2015. link
- Donald F. Norris, Anupam Joshi and Tim Finin, Cyber-Security at the Grassroots: American State and Local Governments and the Management of Website Security, Annual Conf of the Urban Affairs Association, April 2015.
- Adam Shepherd, Robert Arko, Adila Krisnadhi, Pascal Hitzler, Krzysztof Janowicz, Cyndy Chandler, Tom Narock, Michelle Cheatham, Mark Schildhauer, Matt Jones, Lisa Raymond, Audrey Mickle, Tim Finin and Doug Fils, Ontology Design Patterns: Bridging the Gap Between Local Semantic Use Cases and Large-Scale, Long-Term Data Integration, European Geosciences Union General Assembly, April 2015.
- Adila A. Krisnadhi, Robert Arko, Suzanne Carbotte, Cynthia Chandler, Michelle Cheatham, Tim Finin, Pascal Hitzler, Krzysztof Janowicz, Thomas Narock, Lisa Raymond, Adam Shepherd and Peter Wiebe, Ontology Pattern Modeling for Cross-Repository Data Integration in the Ocean Sciences: The Oceanographic Cruise Example. In: Tom Narock and Peter Fox (eds.), The Semantic Web in Earth and Space Science: Current Status and Future Directions. Studies on the Semantic Web, IOS Press, Amsterdam, pp. 256-284, 2015. link
- Jennifer Sleeman and Tim Finin and Anupam Joshi, Entity Type Recognition for Heterogeneous Semantic Graphs, AI Magazine, v36n1, pp. 75-86, April 2015, AAAI Press. link
- Roberto Yus, Primal Pappachan, Prajit Kumar Das, Tim Finin, Anupam Joshi and Eduardo Mena, Semantics for Privacy and Shared Context, 2nd Workshop on Society, Privacy and the Semantic Web - Policy and Technology, CEUR vol. 1316, co-located with 13th Int. Semantic Web Conf., Trento IT, Oct. 2014. link
- Tim Finin, Paul McNamee, Dawn Lawrie, James Mayfield and Craig Harman, Hot Stuff at Cold Start: HLTCOE participation at TAC 2014, 7th Text Analysis Conf., National Institute of Standards & Technology, Nov. 2014. link
- Tom Narock, Adila Krisnadhi, Pascal Hitzler, Michelle Cheatham, Robert Arko, Suzanne Carbotte, Adam Shepherd, Cynthia Chandler, Lisa Raymond, Peter Wiebe and Tim Finin, The OceanLink Project, Int. Workshop on Challenges and Issues on Scholarly Big Data Discovery and Collaboration, IEEE BigData, Oct. 2014, Washington DC. link
- Krisnadhi, A., Arko, R., Carbotte, S., Chandler, C., Cheatham, M., Finin, T., Hitzler, P., Janowicz, K., Narock, T., Raymond, L., Shepherd, A., and Wiebe, P. (2014). An Ontology Pattern for Oceanographic Cruises: Towards an Oceanographer's Dream of Integrated Knowledge Discovery. link
- Jennifer Sleeman and Tim Finin, Taming Wild Big Data, AAAI Fall Symposium on Natural Language Access to Big Data, Nov. 2014. link
- James Mayfield, Paul McNamee, Craig Harman, Tim Finin and Dawn Lawrie, Kelvin: Extracting Knowledge from Large Text Collections, AAAI Fall Symposium on Natural Language Access to Big Data, Nov. 2014. link
- Primal Pappachan, Roberto Yus, Anupam Joshi and Tim Finin, Rafiki: A Semantic and Collaborative Approach to Community Health-Care in Underserved Areas, 10th IEEE Int. Conf. on Collaborative Computing: Networking, Applications and Worksharing, 22-15 October2014, Miami. link
- Roberto Yus, Primal Pappachan, Prajit Das, Tim Finin, Anupam Joshi and Eduardo Mena, Semantics for Privacy and Shared Context, Workshop on Society, Privacy and the Semantic Web–Policy and Technology, Int. Semantic Web Conf., Oct. 2014. link
- Primal Pappachan, Roberto Yus, Prajit Kumar Das, Tim Finin, Eduardo Mena and Anupam Joshi, A Semantic Context-Aware Privacy Model for FaceBlock, Workshop on Society, Privacy and the Semantic Web - Policy and Technology, Int. Semantic Web Conf., Oct. 2014. link
- Roberto Yus, Varish Mulwad, Tim Finin and Eduardo Mena, Infoboxer: Using Statistical and Semantic Knowledge to Help Create Wikipedia Infoboxes, poster paper, Int. Semantic Web Conf., Oct. 2014. link
- Tim Finin, Anupam Joshi, Primal Pappachan, Roberto Yus, Prajit Kumar Das and Eduardo Mena, Privacy in a World of Mobile Devices, NSF-sponsored Workshop on Big Data Security and Privacy, Dallas, TX, Sept. 2014 link
- Varish Mulwad, Tim Finin and Anupam Joshi, Interpreting Medical Tables as Linked Data to Generate Meta-Analysis Reports, 15th IEEE Int. Conf. on Information Reuse and Integration, Aug 2014. link
- Abhay Kashyap, Lushan Han, Roberto Yus, Jennifer Sleeman, Taneeya Satyapanich, Sunil Gandhi and Tim Finin, Meerkat Mafia: Multilingual and Cross-Level Semantic Textual Similarity Systems, Int. Workshop on Semantic Evaluation, Association for Computational Linguistics, Aug. 2014. link
- Roberto Yus, Primal Pappachan, Prajit Kumar Das, Eduardo Mena, Anupam Joshi and Tim Finin, FaceBlock: Privacy-Aware Pictures for Google Glass, 12th Int. Conf. on Mobile Systems, Applications and Services, (demo paper), ACM, June 2014. link
- Karuna P Joshi, Yelena Yesha and Tim Finin, Automating Cloud Services Lifecycle through Semantic Technologies, IEEE Transactions on Services Computing, IEEE Computer Society, 7(1): 109-122, 2014. link
- Paul McNamee, Tim Finin, Dawn Lawrie and James Mayfield, HLTCOE Participation at TAC 2013, 6th Text Analysis Conf., National Institute of Standards and Technology, Nov. 2013. link

- Jennifer Sleeman and Tim Finin, Recognizing Entity Types in Heterogeneous Semantic Graphs, AAAI 2013 Fall Symposium on Semantics for Big Data, Arlington, VA, Nov. 15-17, 2013. link
- Dawn Lawrie, Tim Finin, James Mayfield and Paul McNamee, Comparing and Evaluating Semantic Data Automatically Extracted from Text, AAAI 2013 Fall Symposium on Semantics for Big Data, Arlington, VA, Nov. 15-17, 2013. link
- Prajit Kumar Das, Tim Finin and Anupam Joshi, Energy efficient sensing for managing privacy on smartphones, Workshop on Society, Privacy and the Semantic Web – Policy and Technology, held at 2013 Int. Semantic Web Conf., Oct. 2013. link
- Varish Mulwad, Tim Finin and Anupam Joshi, Semantic Message Passing for Generating Linked Data from Tables, 12th Int. Semantic Web Conf., Sydney, Oct. 2013. link
- Jennifer Sleeman and Tim Finin, Type Prediction for Efficient Coreference Resolution in Heterogeneous Semantic Graphs, Seventh IEEE Int. Conf. on Semantic Computing, Sept. 2013. link
- Arnav Joshi, Ravendar Lal, Tim Finin and Anupam Joshi, Extracting cybersecurity related linked data from text, Seventh IEEE Int. Conf. on Semantic Computing, Sept. 2013. link
- Puneet Sharma, Anupam Joshi and Tim Finin, Detecting Data Exfiltration by Integrating Information Across Layers, IEEE 14th Int. Conf. on Information Reuse and Integration, San Francisco, Aug. 2013. link
- Justin Christopher Martineau, Doreen Cheng and Tim Finin, TISA: Topic Independence Scoring Algorithm, 9th Int. Conf. on Machine Learning and Data Mining, July 19, 2013. link
- Paul McNamee, James Mayfield, Tim Finin, Tim Oates, Dawn Lawrie, Tan Xu and Douglas W. Oard, KELVIN: a tool for automated knowledge base construction, (demo paper), Conf. of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, June 2013. link
- Lushan Han, Abhay L. Kashyap, Tim Finin, James Mayfield and Johnathan Weese, UMBC EBIQUITY-CORE: Semantic Textual Similarity Systems, 2nd Joint Conf. on Lexical and Computational Semantics, Association for Computational Linguistics, June 2013. link
- Prajit Kumar Das, Dibyajyoti Ghosh, Anupam Joshi and Tim Finin, Energy efficient semantic context model for managing privacy on smartphones, (poster paper), 14th Int. Workshop on Mobile Computing Systems and Applications, ACM Press, Feb. 2013. link
- Wenjia Li, Anupam Joshi and Tim Finin, CAST: A Context-Aware Security and Trust Framework for Mobile Ad-hoc Networks Using Policies, Distributed and Parallel Databases, v31n2, pp. 353-376, Springer, June 2013. link
- Karuna Pande Joshi, Yelena Yesha, Tim Finin and Yaacov Yesha, A policy-based cloud broker for the VCL platform, Int. Journal of Cloud Computing, vol.2, no.2/3, pp. 288-303, 2013. link
- Lushan Han, Tim Finin, Paul McNamee, Anupam Joshi and Yelena Yesha, Improving Word Similarity by Augmenting PMI with Estimates of Word Polysemy, IEEE Transactions on Knowledge and Data Engineering, IEEE Computer Society, v25n6, pp. 1307-1322, 2013. link
- N. Noy, D. McGuinness, E. Amir, C. Baral, M. Beetz, S. Bechhofer, C. Boutilier, A. Cohn, J. de Kleer, M. Dumontier, T. Finin, K. Forbus, L. Getoor, Y. Gil, J. Heflin, P. Hitzler, C. Knoblock, H. Kautz, Y. Lierler, V. Lifschitz, P. Patel Schneider, C. Piatko, D. Riecken, and M. Schildhauer, Research Challenges and Opportunities in Knowledge Representation, Workshop Report, Feb. 2013.
- Richard P. Gabriel, Tim Finin, and Ron Sun, David L Waltz, in Memoriam, AI Magazine, v33, n4, pp. 19-21, 2012.
- Paul McNamee, Veselin Stoyanov, James Mayfield, Tim Finin, Tim Oates, Tan Xu, Douglas Oard and Dawn Lawrie, HLTCOE Participation at TAC 2012: Entity Linking and Cold Start Knowledge Base Construction, 5th Text Analysis Conf., NIST, Nov. 2012. link
- M. Lisa Mathews, Paul Halvorsen, Anupam Joshi and Tim Finin, A Collaborative Approach to Situational Awareness for CyberSecurity, 8th IEEE Int. Conf. on Collaborative Computing: Networking, Applications and Worksharing, Pittsburgh PA, 14-17 Oct 2012. link
- Jennifer Sleeman and Tim Finin, Cluster-based Instance Consolidation For Subsequent Matching, 1st Int. Workshop on Knowledge Extraction and Consolidation from Social Media, pp. 13-18, CEUR, Volume 895, Nov. 2012.
- Lushan Han, Tim Finin and Anupam Joshi, Schema-Free Structured Querying of DBpedia Data, 21st ACM Conf. on Information and Knowledge Management, Oct. 2012. link
- Gary Berg-Cross, Isabel Cruz, Mike Dean, Tim Finin, Mark Gahegan, Pascal Hitzler, Hook Hua, Krzysztof Janowicz, Naicong Li, Philip Murphy, Bryce Nordgren, Leo Obrst, Mark Schildhauer, Amit Sheth, Krishna Sinha, Anne Thessen, Nancy Wiegand, Ilya Zaslavsky, Semantics and Ontologies for EarthCube, in: K. Janowicz, C. Kessler, T. Kauppinen, D. Kolas, S. Scheider (eds.), Workshop on GIScience in the Big Data Age, 7th Int. Conf. on Geographic Information Science, Sept. 2012.

- Varish Mulwad, Tim Finin and Anupam Joshi, A Domain Independent Framework for Extracting Linked Semantic Data from Tables, in Search Computing - Broadening Web Search, Stefano Ceri and Marco Brambilla (eds.), LNCS volume 7538, Springer, July 2012. link
- Karuna P Joshi, Tim Finin, Yelena Yesha, Anupam Joshi, Navid Golpayegani and Nabil R. Adam, A Policy-based Approach to Smart Cloud Services, Annual Service Research and Innovation Institute Global Conf., pp. 416-425, San Jose, July 2012. link
- Sumit More, Mary Mathews, Anupam Joshi and Tim Finin, A Semantic Approach to Situational Awareness for Intrusion Detection, (poster paper), National Symposium on Moving Target Research, June 2012. link
- Veselin Stoyanov, James Mayfield, Tan Xu, Douglas W. Oard, Dawn Lawrie, Tim Oates and Tim Finin, A Context-Aware Approach to Entity Linking, Joint Workshop on Automatic Knowledge Base Construction and Web-scale Knowledge Extraction, NAACL-HLT, Montreal, June 2012. link
- James Mayfield and Tim Finin, Evaluating the Quality of a Knowledge Base Populated from Text, Joint Workshop on Automatic Knowledge Base Construction and Web-scale Knowledge Extraction, NAACL-HLT, Montreal, June 2012. link
- Sumit More, Mary Mathews, Anupam Joshi and Tim Finin, A Knowledge-Based Approach To Intrusion Detection Modeling, IEEE Workshop on Semantic Computing and Security, IEEE Computer Society, May 2012. link
- Dibyajyoti Ghosh, Anupam Joshi, Tim Finin and Pramod Jagtap, Privacy control in smart phones using semantically rich reasoning and context modeling, IEEE Workshop on Semantic Computing and Security, pp. 82-85, May 2012. link
- Anupam Joshi, Tim Finin, Karuna Joshi and Madan Oberoi, A Policy Driven Semantic Approach to Data Usage Management, Workshop on Data Usage Management on the Web, with WWW, 2012, Lyon, France, April 2012. link
- Karuna Panda Joshi, Yelena Yesha, Tim Finin and Anupam Joshi, Policy based Cloud Services on a VCL platform, 1st Int. IBM Cloud Academy Conf., April 2012. link
- Wenjia Li, Palanivel Kodeswaran, Pramod Jagtap, Anupam Joshi and Tim Finin, Managing and Securing Critical Infrastructure - A Semantic Policy and Trust driven approach, Securing Cyber-Physical Critical Infrastructures, Foundations and Challenges, pp. 551-572, Morgan Kaufmann, Jan. 2012. link
- Vikas Agrawal, Lokendra Shastri, Munindar Singh, and Tim Finin. Activity Context Representation: Techniques and Languages, February, 2012.
- Sam Blisard, Ted Carmichael, Li Ding, Tim Finin, Wende Frost, Arthur Graesser, Mirsad Hadzikadic, Lalana Kagal, Geert-Jan M Kruijff, Pat Langley, James Lester, Deborah L McGuinness, Jack Mostow, Panagiotis Papadakis, Rashmi Prasad, Svetlana Stoyanchev and Pradeep Varakantham, Reports of the AAAI 2011 Fall Symposia, AI Magazine, v33, n1, pp. 71-78, 2012 link
- Lushan Han, Tim Finin and Anupam Joshi, GoRelations: An Intuitive Query System for DBpedia, Joint Int. Semantic Technology Conf., Springer LNCS, Dec. 2011. link
- Varish Mulwad, Wenjia Li, Anupam Joshi, Tim Finin and Krishnamurthy Viswanathan, Extracting Information about Security Vulnerabilities from Web Text, IEEE/WIC/ACM Int. Conf. on Web Intelligence and Intelligent Agent Technology, Volume 03, August 2011, IEEE.
- V. Mulwad, T. Finin, and A. Joshi, Automatically Generating Government Linked Data from Tables, AAAI Fall Symposium on Open Government Knowledge: AI Opportunities and Challenges, Nov. 2011, AAAI.
- Archit Gupta, Krishnamurthy Viswanathan, Anupam Joshi, Tim Finin, and Ponnurangam Kumaraguru, Integrating linked open data with unstructured text for intelligence gathering tasks, 8th Int. Workshop on Information Integration on the Web, WWW 2011, March 2011.
- Varish Mulwad, Tim Finin, Zareen Syed, and Anupam Joshi, T2LD: Interpreting and Representing Tables as Linked Data, poster paper, 9th International Semantic Web Conference, Shanghai, Nov. 2010, CEUR.
- Krishnamurthy Viswanathan and Tim Finin, Text Based Similarity Metrics and Delta for Semantic Web Graphs, poster paper, 9th Int. Semantic Web Conference, Nov 2010.
- Jennifer Sleeman and Tim Finin, Learning Co-reference Relations for FOAF Instances, (poster paper), Poster and Demonstration Session at the 9th Int. Semantic Web Conf., CEUR, Shanghai, Nov. 2010. link
- Jennifer Sleeman and Tim Finin, Computing FOAF Co-reference Relations with Rules and Machine Learning, 3rd Int.l Workshop on Social Data on the Web, ISWC, Nov 2010
- Clare Grasso, Tim Finin, Michael Grasso, Anupam Joshi, Yelena Yesha, A Framework for the Use of Autonomous Intelligent Agents in Disaster Management and Response, AMIA Annual Symp., Nov. 2010.
- Palanivel Kodeswaran, Anupam Joshi, Tim Finin and Filip Perich, A Declarative Approach for Secure and Robust Routing, 3rd ACM Workshop on Assurable and Usable Security Configuration, Oct., 2010. link
- Palanivel Kodeswaran, Filip Perich, Wenjia Li, Anupam Joshi and Tim Finin, Enforcing Secure and Robust Routing with Declarative Policies, The 2010 Military Communications Conf., Oct. 31, 2010. link

- Mark Dredze, Paul McNamee, Delip Rao, Adam Gerber and Tim Finin, Entity Disambiguation for Knowledge Base Population, 23rd Int. Conf. on Computational Linguistics, Bejing, Aug. 2010. link
- Zareen Syed and Tim Finin, Approaches for Automatically Enriching Wikipedia, AAAI-2010 Workshop on Collaboratively-built Knowledge Sources and Artificial Intelligence, AAAI Press, July 2010.
- Zareen Syed and Tim Finin, Unsupervised Techniques for Discovering Ontology Elements from Wikipedia Article Links, 1st Int. Workshop on Formalisms and Methodology for Learning by Reading, with NAACL, ACL, June 2010.
- Karuna P Joshi, A Joshi, T Finin, Y Yesha, Policy Driven Negotiations for Managing Virtualized Services on the Cloud, 19th Annual Frontiers in Service Conf., Sweden, June 2010. link
- Tim Finin, Will Murnane, Anand Karandikar, Nick Keller, Justin Martineau and Mark Dredze, Annotating named entities in Twitter data with crowdsourcing, Creating Speech and Text Language Data With Amazon's Mechanical Turk Workshop, with NAACL 2010, June 2010. link
- Wenjia Li, Anupam Joshi and Tim Finin, Coping with Node Misbehaviors in Ad Hoc Networks: A Multi-Dimensional Trust Management Approach, 11th Int. Conf. on Mobile Data Management, pp. 85-94, IEEE Computer Society, May 2010. link
- Palanivel Kodeswaran, Anupam Joshi, Tim Finin and Filip Perich, Correcting Routing Failures using Declarative Policies and Argumentation, Poster Session, 7th USENIX Symp. on Networked Systems Design and Implementation, April 2010. link
- Zareen Syed, Tim Finin, Varish Mulwad and Anupam Joshi, Exploiting a Web of Semantic Data for Interpreting Tables, 2nd Web Science Conf., April 2010. link
- Li Ding, Joshua Shinavier, Tim Finin and Deborah L. McGuinness, owl:sameAs and Linked Data: An Empirical Study, 2nd Web Science Conf., April 2010. link
- Jennifer Sleeman and Tim Finin, A Machine Learning Approach to Linking FOAF Instances, AAAI Spring Symp. on Linked Data Meets Artificial Intelligence, March 2010, Stanford CA, AAAI Press. link
- Joel Sachs and Tim Finin. What Does it Mean for a URI to Resolve?, AAAI Spring Symp. on Linked Data Meets Artificial Intelligence, March 2010, AAAI Press. linka
- Tim Finin and Zareen Syed, Creating and Exploiting a Web of Semantic Data, 2nd Int. Conf. on Agents and Artificial Intelligence, Valentia ES, 22-24 Jan. 2010. link

2000s

- Paul McNamee, Mark Dredze, Adam Gerber, Nikesh Garera, Tim Finin, James Mayfield, Christine Piatko, Delip Rao, David Yarowsky, Markus Dreyer, HLTCOE Approaches to Knowledge Base Population at TAC 2009, Text Analysis Conf., NIST, Nov. 2009.
- Clare Grasso, Tim Finin, Michael Grasso, Yelena Yesha, Anupam Joshi, Intelligent Agents and UICDS, Workshop on Emergency Management: Incident, Resource and Supply Chain Management, Nov. 2009.
- Karuna Pande Joshi, Tim Finin and Yelena Yesha, Integrated Lifecycle of IT Services in a Cloud Environment, 3rd Int. Conf. on the Virtual Computing Initiative, Oct. 2009. link
- Lushan Han, Tim Finin, Anupam Joshi and Yelena Yesha, Data Integration for E-Science Using Correlated Concepts, (abstract), Microsoft eScience Workshop, Oct. 2009, Pittsburgh.
- Joel Sachs, Tejas Lagvankar and Tim Finin, Social and Semantic Computing to Support Citizen Science, (abstract), Microsoft eScience Workshop, Oct. 2009.
- Lushan Han, Tim Finin and Yelena Yesha, Finding Semantic Web Ontology Terms from Words, poster paper, 8th Int. Semantic Web Conf., Springer Verlag, Oct. 2009. link
- Lalana Kagal, Ora Lassila, Tim Finin (eds.), SemRUs 2009: Semantics for the Rest of Us - Variants of Semantic Web Languages in the Real World, Proceedings of the SemRUs09 workshop, collocated with 8th Int. Semantic Web Conf., October 2009.
- Deepak Chinavle, Pranam Kolari, Tim Oates and Tim Finin, Ensembles in Adversarial Classification for Spam, in 18th ACM Conf. on Information and Knowledge Management, pp. 2015-2018, Nov. 2009. link
- Justin Martineau, Tim Finin, Anupam Joshi and Shamit Patel, Improving Binary Classification on Text Problems using Differential Word Features, 18th ACM Conf. on Information and Knowledge Management, pp. 2019-2024, ACM Press, Nov. 2009. link
- Wenjia Li, Anupam Joshi and Tim Finin, Policy-based Malicious Peer Detection in Ad Hoc Networks, Int. Conf. on Information Privacy, Security, Risk and Trust, pp. 76-82, Aug. 2009. link
- Michael A. Grasso Tim Finin, Xianshu Zhu, Anupam Joshi and Yelena Yesha, Video Summarization of Laparoscopic Cholecystectomies, (abstract), AMIA 2009 Annual Symp., Nov. 2009. link
- Clayton Fink, Christine Piatko, James Mayfield, Danielle Chou, Tim Finin and Justin Martineau, The Geolocation of Web Logs from Textual Clues, CSE, vol. 4, pp. 1088-1092, Int. Conf. on Computational Science and Engineering, IEEE CS Press, Aug. 2009. link

- Anupam Joshi, Yelena Yesha, Tim Finin, Wenjia Li, and Palanivel Andiappan Kodeswaran, A Policy and Trust Driven Framework for Securing Cyber Physical Systems, Workshop on Future Directions in Cyber-physical Systems Security, U.S. Department of Homeland Security, July 2009.
- Justin Martineau and Tim Finin, Delta TFIDF: An Improved Feature Space for Sentiment Analysis, (poster paper), 3rd AAAI Int. Conf. on Weblogs and Social Media, AAAI Press, May 2009. link
- Lushan Han, Tim Finin, Yelena Yesha, Robin Salkeld, Justin Martineau, Li Ding, and Anupam Joshi, Finding Appropriate Semantic Web Ontology Terms from Words, Technical Report, UMBC, May 2009.
- Tim Finin, Zareen Syed, James Mayfield, Paul McNamee and Christine Piatko, Using Wikitology for cross-document entity coreference resolution, AAAI 2009 Spring Symp. on Learning by Reading and Learning to Read, March 2009. link
- James Mayfield, David Alexander, Bonnie Dorr, Jason Eisner, Tamer Elsayed, Tim Finin, Clay Fink, Marjorie Freedman, Nikesh Garera, James Mayfield, Paul McNamee, Saif Mohammad, Douglas Oard, Christine Piatko, Asad Sayeed, Zareen Syed, Ralph Weischedel, Cross-Document Coreference Resolution: A Key Technology for Learning by Reading, AAAI 2009 Spring Symp. on Learning by Reading and Learning to Read, March 2009. link
- Clay Fink, Christine Piatko, James Mayfield, Tim Finin and Justin Martineau, Geolocating Blogs From Their Textual Content, AAAI Spring Symp. on Social Semantic Web: Where Web 2.0 Meets Web 3.0, March 2009. link
- James Mayfield, Bonnie Dorr, Tim Finin, Douglas Oard and Christine Piatko, Knowledge Base Evaluation for Semantic Knowledge Discovery, NSF Symp. Semantic Knowledge Discovery, Organization and Use, Nov. 2008. link
- Sheetal Gupta, Anupam Joshi and Tim Finin, A Framework for Secure Knowledge Management in Pervasive Computing, Workshop on Secure Knowledge Management, 3-4 Nov. 2008, Richardson, TX. link
- Amit Sheth, Steffen Staab, Mike Dean, Massimo Paolucci, Diana Maynard, Timothy Finin, Krishnaprasad Thirunarayan (eds.), Proc. of the 7th International Semantic Web Conference, Springer, Oct. 2008.
- Lushan Han, Tim Finin, Cynthia Parr, Joel Sachs and Anupam Joshi, RDF123: from Spreadsheets to RDF, 7th Int. Semantic Web Conf., 26-31 Oct. 2008, Karlsruhe, DE. link
- Zareen Syed, Tim Finin and Anupam Joshi, Wikitology: Wikipedia as an ontology, (poster paper), Grace Hopper Celebration of Women in Computing Conf., Oct. 2008. link
- Onkar Walavalkar, Anupam Joshi, Tim Finin and Yelena Yesha, Streaming Knowledge Bases, 4th Int. Workshop on Scalable Semantic Web knowledge Base Systems, Karlsruhe, 26 Oct. 2008. link
- Anupam Joshi, Tim Finin, Lalana Kagal, Jim Parker and Anand Patwardhan, Security Policies and Trust in Ubiquitous Computing, Philosophical Transactions A, The Royal Society of London, Oct. 2008. link
- Cynthia Sims Parr, Joel Sachs and Tim Finin, Lessons learned from semantic web prototyping in ecology, (abstract), Annual Conf. of the Taxonomic Databases Working Group, Oct. 2008.
- Pranam Kolari and Tim Finin, Spings und Splog, (In German), Linux Technical Review, n.7, Linux Magazin, Munchen, Aug. 2008.
- Tim Finin, Anupam Joshi, Pranam Kolari, Akshay Java, Anubav Kale and Amit Krandikar, The Information ecology of social media and online communities, AI Magazine, v29, n3, Fall 2008. link
- Akshay Java, Anupam Joshi and Tim Finin, Detecting Commmunities via Simultaneous Clustering of Graphs and Folksonomies, 10th Workshop on Web Mining and Web Usage Analysis, 14th ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining, Las Vegas NV, Aug. 2008,link
- Pranam Kolari, Tim Finin, Kelly Lyons and Yelena Yesha, Expert Search using Internal Corporate Blogs, SIGIR Workshop on Future Challenges in Expertise Retrieval, July 2008. link
- Lushan Han and Tim Finin, Predicting appropriate semantic web terms from words, (poster paper), 23rd AAAI Conf. on Artificial Intelligence, pp. 1802-1803, July 2008. link
- Palanivel Andiappan Kodeswaran, Sethuram Balaji Kodeswaran, Anupam Joshi and Tim Finin, Enforcing security in semantics driven policy based networks, 24th Int. Conf. on Data Engineering Workshops, Secure Semantic Web, April 2008. link
- Tim Finin, Anupam Joshi, Lalana Kagal, Jianwei Niu, Ravi Sandhu, William Winsborough and Bhavani Thuraisingham, ROWLBAC - Representing Role Based Access Control in OWL, 13th ACM Symposium on Access Control Models and Technologies, ACM Press, June 2008. **10-Year SACMAT best paper award, 2018**
- Clay Fink, Tim Finin, Jim Mayfield and Christine Piatko, OWL as a Target for Information Extraction Systems, (Statement of Interest), 4th OWL: Experiences and Directions Workshop, April 2008. link
- Tim Finin, Anupam Joshi, Lalana Kagal, Jianwei Niu, Ravi Sandhu, William H Winsborough and Bhavani Thuraisingham, Role Based Access Control and OWL, 4th OWL: Experiences and Directions Workshop, April 2008. link
- Eytan Adar, Matthew Hurst, Tim Finin, Natalie S. Glance, Nicolas Nicolov, Belle L. Tseng (Eds.), Proceedings of the Second International Conference on Weblogs and Social Media, AAAI Press, March 2008.

- Akshay Java, Anupam Joshi and Tim Finin, Approximating the Community Structure of the Long Tail, (poster paper), 2nd Int. Conf. on Weblogs and Social Media, AAAI Press, March 2008. link
- Amit Karandikar, Akshay Java, Anupam Joshi, Tim Finin, Yelena Yesha, and Yaacov Yesha, 2nd Space: A Generative Model For The Blogosphere, (poster paper), 2nd Int. Conf. on Weblogs and Social Media, AAAI Press, March 2008. link
- Zareen Syed, Tim Finin and Anupam Joshi, Wikipedia as an Ontology for Describing Documents, 2nd Int. Conf. on Weblogs and Social Media, AAAI Press, March 2008.
- Z. Syed, T. Finin, and A. Joshi, Wikitology: Using Wikipedia as an Ontology, TechReport, Feb. 2008, UMBC.
- Boanerges Aleman-Meza, Meenakshi Nagarajan, Li Ding, Amit P. Sheth, Ismailcem Budak Arpinar, Anupam Joshi, Tim Finin: Scalable semantic analytics on social networks for addressing the problem of conflict of interest detection, ACM Transactions on the Web, V. 2, N. 1, Feb. 2008. link
- Tim Finin, Lalana Kagal and Daniel Olmedilla (Eds.), Workshop on privacy enforcement and accountability with semantics, 6th Int. Semantic Web Conf. and 2nd Asian Semantic Web Conf., Busan, Korea, Nov. 2007.
- Anupam Joshi, Tim Finin, Akshay Java, Anubhav Kale and Pranam Kolari, Web 2.0 Mining: Analyzing Social Media, NSF Symp. on Next Generation of Data Mining and Cyber-Enabled Discovery for Innovation, Oct. 2007. link
- Akshay Java, Sergei Nirneburg, Marjorie McShane, Tim Finin, Jesse English and Anupam Joshi, Using a Natural Language Understanding System to Generate Semantic Web Content, Int. Journal on Semantic Web and Information Systems, 3(4), 2007. link
- Cynthia Sims Parr, Joel Sachs, Lushan Han, T Wang and Tim Finin, RDF123 and Spotter: Tools for generating OWL and RDF for biodiversity data in spreadsheets and unstructured text, Biodiversity Information Standards Annual Conf., Sept. 2007. link
- P. Ordez, P. Kodeswaran, V. Korolev,W. Li, O.Walavalkar, B. Elgamil, A. Joshi, T. Finin and Y. Yesha, A Ubiquitous Context-Aware Environment for Surgical Training, The 1st Int. Workshop on Mobile and Ubiquitous Context Aware Systems and Applications, Philadelphia, Aug. 2007. link
- Akshay Java, Xiaodan Song, Tim Finin and Belle Tseng, Why We Twitter: Understanding Microblogging Usage and Communities, Joint 9th WEBKDD and 1st SNA-KDD Workshop, Aug. 2007. link
- Justin Martineau, Akshay Java, Pranam Kolari, Tim Finin, Anupam Joshi, and James Mayfield, Blogvox: Learning Sentiment Classifiers, In Proceedings of the National Conference on Artificial Intelligence, AAAI Press, July, 2007. link
- Sheetal Agarwal, Anupam Joshi, Tim Finin, Yelena Yesha and Tim Ganous, A Pervasive Computing System for the Operating Room of the Future, Mobile Networks and Applications, v12, n2-3, pp. 215-228, Springer, June 2007. link
- Tim Finin, Joel Sachs and Cynthia Parr, Finding Data, Knowledge and Answers on the Semantic Web, 20th Int. FLAIRS Conf., AAAI Press, May 2007. link
- Lalana Kagal and Tim Finin, Modeling Conversation Policies using Permissions and Obligations, Journal of Autonomous Agents and Multi-Agent Systems, pp. 187-206, v. 14, n. 2, April 2007. link
- Akshay Java, Pranam Kolari, Tim Finin, Anupam Joshi and Tim Oates, Feeds That Matter: A Study of Bloglines Subscriptions, 1st Int. Conf. on Weblogs and Social Media, Boulder, Colorado, 25 March 2007. link
- Joshua Bongard, Derek Brock, Samuel G. Collins, Ramani Duraiswami, Tim Finin, Ian Harrison, Vasant Honavar et al., Reports on the 2006 AAAI Fall Symposia, AI Magazine 28, no. 1 (2007): 88-92. link
- Anubhav Kale, Amit Karandikar, Pranam Kolari, Akshay Java, Anupam Joshi and Tim Finin, Modeling Trust and Influence in the Blogosphere Using Link Polarity, 1st Int. Conf. on Weblogs and Social Media, Boulder, Colorado, 25 March 2007. link
- Pranam Kolari, Tim Finin, Yelena Yesha, Yaacov Yesha, Kelly Lyons, Stephen Perelgut and Jen Hawkins, On the Structure, Properties and Utility of Internal Corporate Blogs, 1st Int. Conf. on Weblogs and Social Media, Boulder, Colorado, 25 March 2007. link
- Pranam Kolari, Tim Finin, Akshay Java and Anupam Joshi Towards Spam Detection at Ping Servers, (demo paper), 1st Int. Conf. on Weblogs and Social Media, Boulder, Colorado, 25 March 2007. link
- Akshay Java, Pranam Kolari, Tim Finin, James Mayfield, Anupam Joshi and Justin Martineau, BlogVox: Separating Blog Wheat from Blog Chaff, Workshop on Analytics for Noisy Unstructured Text Data, 20th Int. Joint Conf. on Artificial Intelligence, Jan. 2007. link
- Pavan Reddivari, Tim Finin and Anupam Joshi, Policy-Based Access Control for an RDF Store, IJCAI-07 Workshop on Semantic Web for Collaborative Knowledge Acquisition, Jan., 2007. link
- Dipanjan Chakraborty, Anupam Joshi, Yelena Yesha and Tim Finin, Toward distributed service discovery in pervasive computing environments, IEEE Journal of Transactions on Mobile Computing, v5, n2, pp. 97-112, IEEE Computer Society, 2006. link

- Tim Finin, Lalana Kagal and Daniel Olmedilla, Report on the Models of Trust for the Web Workshop, SIGMOD Record, v35, n4, pp. 54-56, Dec. 2006. link
- Pranam Kolari, Akshay Java, Tim Finin, James Mayfield, Anupam Joshi and Justin Martineau, Blog Track Open Task: Spam Blog Classification, 15th Text REtrieval Conf., Gaithersburg, MD, Nov. 2006. link
- Akshay Java, Pranam Kolari, Justin Martineau, Tim Finin, James Mayfield and Anupam Joshi, The BlogVox Opinion Retrieval System, 15th Text Retrieval Conf., Gaithersburg, MD, Nov. 2006. link
- Piero Bonatti, Li Ding, Tim Finin, and Daniel Olmedilla, Proceedings of the Second Semantic Web Policy Workshop, CEUR 207, Nov. 2006.
- Pranam Kolari, Tim Finin, Yelena Yesha, Kelly Lyons, Stephen Perelgut and Jen Hawkins, Monitoring Conversations on the Blogosphere: An Enterprise Perspective, CASCON 2006 Exhibit Program, Oct., 2006. link
- Joel Sachs, Cynthia Parr, Adrey Parafiynyk, Rong Pan, Lushan Han, Li Ding and Tim Finin, Using the Semantic Web to Support Ecoinformatics, AAAI 2006 Fall Symp. on Semantic Web for Collaborative Knowledge Acquisition, 13-15 Oct. 2006. link
- Li Ding and Tim Finin, Characterizing the Semantic Web on the Web, 5th Int. Semantic Web Conf., Athens GA, 5-9 Nov. 2006. link
- Enrico Rukzio, Massimo Paolucci, Tim Finin, Paul Wisner, and Terry Payne, MobileHCI '06: Proc. of the 8th conf. on Human-computer interaction with mobile devices and services, September, 2006, ACM.
- Anand Patwardhan, Anupam Joshi, Tim Finin and Yelena Yesha, A Data Intensive Reputation Management Scheme for Vehicular Ad Hoc Networks, 2nd Int. Workshop on Vehicle-to-Vehicle Communications, with 3rd Annual Int. Conf. on Mobile and Ubiquitous Systems: Networks and Services, San Jose, July 2006. link
- Lalana Kagal Tim Finin, Anupam Joshi and Sol Greenspan, Security and Privacy in Open and Dynamic Environments, IEEE Computer, volume 39, n. 5, June 2006. link
- Tim Finin and Li Ding, Search Engines for Semantic Web Knowledge, XTech 2006: Building Web 2.0, 16-19 May 2006. link
- Pranam Kolari, Akshay Java, Tim Finin, Tim Oates and Anupam Joshi, Detecting Spam Blogs: A Machine Learning Approach, 21st National Conf. on Artificial Intelligence, July 2006. link
- Anand Patwardhan, Filip Perich, Anupam Joshi, Tim Finin and Yelena Yesha, Querying in packs: Trustworthy Data Management in Ad Hoc Networks, Int. Journal of Wireless Information Networks, 21 July 2006. link
- Pranam Kolari and Tim Finin, Meeta: A Framework for Multi-Relational Analytics on the Blogosphere, (abstract), 21st National Conf. on Artificial Intelligence, July 2006. link
- Akshay Java, Tim Finin and Sergei Nirenburg, SemNews: A Semantic News Framework, 21st National Conf. on Artificial Intelligence, July 2006. link
- Cynthia Parr andriy Parafiynyk, Joel Sachs, Rong Pan, Lushan Han, Li Ding, Tim Finin and Taowei Wang, Using the Semantic Web to Integrate Ecoinformatics Resources (poster), 21st National Conf. on Artificial Intelligence, July 2006. link
- Pranam Kolari, Tim Finin, Yelena Yesha, Kelly Lyons, Jen Hawkins and Stephen Perelgut, Policy Management of Enterprise Systems: A Requirements Study, short paper, 2006 IEEE Workshop on Policy for Distributed Systems and Networks, 5-7 June 2006, London, Ontario CN. link
- Sheetal Agarwal, Anupam Joshi, and Tim Finin, Context-Aware System to Create Electronic Medical Encounter Records, TR-CS-06-05, UMBC CSEE, July 19, 2006. link
- Jim Parker, Anand Patwardhan, Filip Perich, Anupam Joshi and Tim Finin, Trust in Pervasive Computing, in The Handbook of Mobile Middleware, P. Bellavista and A. Corradi (eds.), pp. 473-496, CRC Press, May 2006. link
- Enrico Rukzio, Massimo Paolucci, Tim Finin, Paul Wisner and Terry Payne, Mobile interaction with the real world, 8th Int. Conf. on Human Computer Interaction with Mobile Devices and Services, ACM Press, Sept. 2006.
- Enrico Rukzio, Massimo Paolucci, Tim Finin, Paul Wisner and Terry Payne, (Eds.),Proceedings of the workshop on mobile Interaction with the real world (MIRW 2006), Sept. 2006.
- Cynthia Parr, Andriy Parafiynyk, Joel Sachs, Li Ding, Sandor Dornbush, Tim Finin, Taowei Wang and Allan Hollander, Integrating Ecoinformatics Resources on the Semantic Web, poster, 15th Int. World Wide Web Conf., May 2006. link
- Pranam Kolari, Akshay Java and Tim Finin, "Characterizing the Splogosphere", 3rd Annual Workshop on Weblogging Ecosystem: Aggregation, Analysis and Dynamics,with WWW2006, Edinboro, May 2006. link
- Lushan Han, Li Ding, Rong Pan, and Tim Finin. Swoogle's Metadata about the Semantic Web, Technical Report, UMBC May 2006.
- Boanerges Aleman-Meza, Meenakshi Nagarajan, Cartic Ramakrishnan, Amit Sheth, Budak Arpinar, Li Ding, Pranam Kolari, Anupam Joshi and Tim Finin, Semantic Analytics on Social Networks: Experiences in Addressing the Problem of Conflict of Interest Detection, WWW 2006, Edinburgh, Scotland, May 2006.

- Pranam Kolari, Tim Finin and Anupam Joshi, SVMs for the Blogosphere: Blog Identification and Spam Detection, submitted, AAAI Spring Symp. on Computational Approaches to Analysing Weblogs, Stanford, March 2006. link
- Akshay Java, Tim Finin and Sergei Nirenburg, Text understanding agents and the Semantic Web, 39th Hawaii Int. Conf. on System Sciences, Kauai HI, 4-6 Jan., 2006. link
- Michael Huhns, Munindar Singh, Mark Burstein, Keith Decker, KE Durfee, Tim Finin, TL Gasser, Hrishikesh Goradia, PN Jennings, Kiran Lakkaraju, Hideyuki Nakashima, H Van Dyke Parunak, Jeffrey Rosenschein, Alicia Ruvinsky, Gita Sukthankar, Samarth Swarup, Katia Sycara, Milind Tambe, Tom Wagner, L Zavafa, Research Directions for Service-Oriented Multiagent Systems, IEEE Internet Computing, v9, n6, pp. 65-70, Nov./Dec. 2005.
- Li Ding, Tim Finin, Anupam Joshi, Yun Peng, Rong Pan and Pavan Reddivari, Search on the Semantic Web, IEEE Computer, Oct. 2005.
- Anand Patwardhan, Filip Perich, Anupam Joshi, Tim Finin and Yelena Yesha, Active Collaborations for Trustworthy Data Management in Ad Hoc Networks, 2nd IEEE Int. Conf. on Mobile Ad-Hoc and Sensor Systems, Nov. 2005.
- Mark Burstein, Christoph Bussler, Tim Finin, Michael Huhns, Massimo Paolucci, Amit Sheth, Stuart Williams and Michal Zaremba, A Semantic Web Services Architecture, IEEE Internet Computing, pp. 52-61, v9, n5, Sept./Oct. 2005. link
- Li Ding, Rong Pan, Tim Finin, Anupam Joshi, Yun Peng and Pranam Kolari, Finding and Ranking Knowledge on the Semantic Web, 4th Int. Semantic Web Conf., Galway IE, Nov. 2005. link
- Li Ding, Tim Finin, Anupam Joshi, Yun Peng, Paulo Pinheiro da Silva and Deborah McGuinness, Tracking RDF Graph Provenance using RDF Molecules, poster paper, 4th Int. Semantic Web Conf., Galway IE, Nov. 2005. link
- Akshay Java, Tim Finin and Sergei Nirenburg, Integrating Language Understanding Agents Into the Semantic Web, 1st Int. Symp. on Agents and the Semantic Web, 2005 AAAI Fall Symp. Series, Arlington VA, 4-6 Nov. 2005. link
- Harry Chen, Filip Perich, Tim Finin and Anupam Joshi, The SOUPA Ontology for Pervasive Computing, in Ontologies for Agents: Theory and Experiences, Valentina Tamma, Stephen Cranefield, Tim Finin and Steven Willmott (Eds), Springer Verlag, (Whitestein Series in Software Agent Technologies), June 2005. link
- Valentina Tamma, Stephen Cranefield, Tim Finin and Steven Willmott (Eds), Ontologies for Agents: Theory and Experiences, Springer Verlag, (Whitestein Series in Software Agent Technologies), June 2005.
- Tim Finin, Li Ding, Rong Pan, Anupam Joshi, Pranam Kolari, Akshay Java and Yun Peng, "Swoogle: Searching for knowledge on the Semantic Web", Intelligent Systems Demonstration, 20th National Conf. on Artificial Intelligence, July 2005. link
- Tim Finin, Li Ding, Lina Zhou and Anupam Joshi, Social Networking on the Semantic Web, Learning Organization Journal, v12, n5, pp. 418-435, 2005. link
- Ryusuke Masuoka, Mohinder Chorpa, Zhexuan Song, Yannis Labrou, Lalana Kagal and Tim Finin, Policy-based Access Control for Task Computing Using Rei, Policy Management for the Web Workshop, 14th Int. World Wide Web Conf., pp. 37-43, 10 May 2005, Chiba Japan. link
- Pavan Reddivari, Tim Finin and Anupam Joshi, Policy based Access Control for a RDF Store, Policy Management for the Web workshop (position paper), 14th Int. World Wide Web Conf., pp. 78-81, 10 May 2005, Chiba, Japan. link
- Pranam Kolari, Li Ding, Lalana Kagal, Shashidhara Ganjugunte, Tim Finin and Anupam Joshi, Enhancing Web Privacy Protection through Declarative Policies, 2005 IEEE Workshop on Policy for Distributed Systems and Networks, 6-8 June 2005, Stockholm. link
- Filip Perich, Anupam Joshi, Yelena Yesha and Tim Finin, "Collaborative Joins in a Pervasive Computing Environment", VLDB Journal, v14 n2, pp 182-196, April 2005. link
- Li Ding, Pranam Kolari, Tim Finin, Anupam Joshi, Yun Peng and Yelena Yesha, On Homeland Security and the Semantic Web: A Provenance and Trust Aware Inference Framework, poster paper, AAAI Spring Symp. on AI Technologies for Homeland Security, 21-25 March 2005. link
- Lalana Kagal and Tim Finin, Modeling Communicative Behavior using Permissions and Obligations, in Developments in Agent Communication, Frank Dignum, Rogier van Eijk, Marc-Philippe Huget (Eds), AAMAS Workshop on Agent Communication, Springer, LNCS, Jan. 2005. link
- Dipanjan Chakraborty, Anupam Joshi, Tim Finin and Yelena Yesha, Service Composition for Mobile Environments, Journal on Mobile Networking and Applications, Special Issue on Mobile Services, v10, n4, pp 435-451, Jan. 2005. link
- Li Ding, Lina Zhou, Tim Finin and Anupam Joshi, How the Semantic Web is Being Used:An Analysis of FOAF, 38th Int. Conf. on System Sciences, Digital Documents Track (The Semantic Web: The Goal of Web Intelligence), Hawaii, Jan. 2005. link

- Tim Finin, James Mayfield, Anupam Joshi, R. Scott Cost and Clay Fink, Information Retrieval and the Semantic Web, 38th Int. Conf. on System Sciences, Digital Documents Track (The Semantic Web: The Goal of Web Intelligence), Hawaii, Jan. 2005.

  Anjali Bharat Shah, Lalana Kagal, Tim Finin, and Anupam Joshi, Policy Development Software for Security Policies, DIAMACS Workshop on Usable Privacy and Security Software, July 2004.
- Youyong Zou, Tim Finin Harry Chen, F-OWL: an Inference Engine for Semantic Web, in Michael G. Hinchey, James L. Rash, Walter F. Truszkowski and Christopher A. Rouff (eds.), Formal Approaches to Agent Based Systems, 3rd NASA/IEEE Workshop on Formal Approaches to Agent Based Systems, FAABS III, April 2004, Greenbelt MD, Springer Verlag Lecture Notes in Computer Science, v3228, Dec. 2004. link
- Lalana Kagal, Tim Finin and James A. Hendler, Proc. Policy Management for the Web Workshop, held at WWW 2005, May 10, 2005. link
- Li Ding, Tim Finin and Anupam Joshi, Analyzing Social Networks on the Semantic Web, IEEE Intelligent Systems, Trends and Controversies, v9, n1, Jan/Feb 2005. link/
- Grit Denker, Lalana Kagal, and Tim Finin, Security in the Semantic Web using OWL, Information Security Technical Report, v10, n1, pp. 51-58, Elsevier, Jan. 2005.
- Mark Cornwell, James Just, Lalana Kagal, and Tim Finin, Autonomic Policy-Based Collaboration for Cross-Agency Human Teams, Conference on the Human Impact and Application of Autonomic Computing Systems (CHIACS2), 2004.
- Mark Cornwell, James E. Just, Lalana Kagal, and Tim Finin, A Policy Based Collaboration Infrastructure for P2P Networking, 12th International Conference on Telecommunication Systems, Modeling and Analysis (ICTSMA), July 2004,
- Lalana Kagal, James Parker, Harry Chen, Anupam Joshi and Tim Finin, Security, Trust and Privacy in Mobile Computing Environments, in Handbook of Mobile Computing, Imad Mahgoub and Mohammad Ilyas (eds.), CRC Press, pp. 961-986, Dec. 2004. link
- Harry Chen, Tim Finin, Anupam Joshi, Filip Perich, Dipanjan Chakraborty and Lalana Kagal, Intelligent Agents Meet the Semantic Web in Smart Spaces, IEEE Internet Computing, v8, n6, ¡Nov./Dec., 2004. link
- Lalana Kagal, Tim Finin and Anupam Joshi, Declarative Policies for Describing Web Service Capabilities and Constraints, W3C Workshop on Constraints and Capabilities for Web Services, Oct., 2004. link
- Olga Streltchenko, Yelena Yesha and Tim Finin, Multi-agent simulation of financial markets, in Steven Orla Kimbrough and D.J. Wu (eds.), Formal Modeling in Electronic Commerce: Representation, Inference and Strategic Interaction, Springer, 2005.
- Li Ding, Tim Finin, Anupam Joshi, Rong Pan, R. Scott Cost, Joel Sachs, Vishal Doshi, Pavan Reddivari and Yun Peng, Swoogle: A Search and Metadata Engine for the Semantic Web, 13th ACM Conf. on Information and Knowledge Management, Washington DC, Nov. 2004. link
- Tim Finin and Joel Sachs, Will the Semantic Web Change Science?, Science Next Wave, American Association for the Advancement of Science, Sept. 2004. link
- Xiaocheng Luan, Yun Peng and Tim Finin, Quantitative Agent Service Matching, 2004 IEEE/WIC/ACM Int. Conf. on Web Intelligence, Sept. 2004, Beijing. link
- Lalana Kagal, Massimo Paolucci, Naveen Srinivasan, Grit Denker, Tim Finin and Katia Sycara, Authorization and Privacy for Semantic Web Services, IEEE Intelligent Systems, Special issue on Semantic Web Services, pp. 50-56, v19, n4 (July/Aug.), 2004. link
- Deepali Khushraj, Ora Lassila and Tim Finin, sTuples: Semantic Tuple Spaces, Int. Conf. on Mobile and Ubiquitous Systems: Networking and Services, Boston, Aug. 2004. link
- Filip Perich, Jeffrey L Undercoffer, Lalana Kagal, Anupam Joshi, Tim Finin and Yelena Yesha, In Reputation We Believe: Query, Processing in Mobile Ad-Hoc Networks, Int. Conf. on Mobile and Ubiquitous Systems: Networking and Services, Boston, Aug. 2004. link
- Harry Chen, Filip Perich, Anupam Joshi and Tim Finin, SOUPA: Standard Ontology for Ubiquitous and Pervasive Applications, Processing in Mobile Ad-Hoc Networks Int. Conf. on Mobile and Ubiquitous Systems: Networking and Services, Boston, Aug. 2004. link
- Lalana Kagal and Tim Finin, A Generic Model for Conversation Specifications and Policies based on Permissions and Obligations, AAMAS 2004 Workshop on Agent Communication, July 2004. link
- Li Ding, Pranam Kolari, Shashidhara Ganjugunte, Tim Finin, and Anupam Joshi, Modeling and Evaluating Trust Network Inference, 7th Int. Workshop on Trust in Agent Societies (AAMAS), July 2004. link
- Harry Chen, Filip Perich, Dipanjan Chakraborty, Tim Finin and Anupam Josh, Intelligent Agents Meet Semantic Web in a Smart Meeting Room, 3rd Int. Joint Conf. on Autonomous Agents and Multi Agent Systems, New York, July 2004. link

- Viral Parekh, Jin-Ping Gwo and Tim Finin, Ontology based Semantic Metadata for GeoScience Data, Int. Conf. on Information and Knowledge Engineering, pp. 485-490, June 2004. link
- Viral Parekh, Jack Gwo, Tim Finin: Mining Domain Specific Texts and Glossaries to Evaluate and Enrich Domain Ontologies, Int. Conf. on Information and Knowledge Engineering, pp. 533-540, June 2004. link
- William Krueger, Jonathan Nilsson, Tim Oates and Tim Finin, Automatically Generated DAML Markup for Semistructured Documents, in Agent Mediated Knowledge Management, Lecture Notes in Artificial Intelligence, Luder van Elst, Virginia Dignum and Andreas Abecker (Eds.), 2004. (Revised version of 2003 workshop paper).
- Harry Chen, Tim Finin and Anupam Joshi, Semantic Web in the Context Broker Architecture, IEEE Conf. on Pervasive Computing and Communications, March, 2004. link
- Olga Ratsimor, Dipanjan Chakraborty, Anupam Joshi, Tim Finin and Yelena Yesha, Service Discovery in Agent-based Pervasive Computing Environments, Journal on Mobile Networking and Applications. Special issue on Mobile and Pervasive Commerce, v9, pp 679-692, 2004. link
- Lalana Kagal, Massimo Paolucci, Naveen Srinivasan, Grit Denker, Tim Finin and Katia Sycara, Authorization and Privacy for Semantic Web Services, AAAI 2004 Spring Symp. on Semantic Web Services, Stanford, March 2004. link
- Harry Chen, Tim Finin and Anupam Joshi, A Context Broker for Building Smart Meeting Rooms, AAAI 2004 Spring Symp. on Knowledge Representation and Ontology for Autonomous Systems, Stanford, March 2004. link
- Jeffery Undercoffer, Anupam Joshi, Tim Finin and John Pinkston. "Using DAML+OIL to Classify Intrusive Behaviors", Knowledge Engineering Review - Special Issue on Ontologies for Distributed Systems, v3 n18, pp. 221-241, Cambridge Univ. Press, 2004. link
- Harry Chen, Tim Finin and Anupam Joshi, An ontology for context aware pervasive computing environments, Knowledge Engineering Review - Special Issue on Ontologies for Distributed Systems, v18n3, pp. 197-207, Cambridge Univ. Press, 2003. link
- Deepali Khushraj, Tim Finin and Anupam Joshi, Semantic Tuple Spaces: A Coordination Infrastructure in Mobile Environments, poster paper, 2nd Int. Semantic Web Conf., Oct. 2003. link
- Youyong Zou, Tim Finin, Yun Peng, ANupam Joshi and Scott Cost, Agent Communication in DAML World, in Innovative Concepts for Agent-Based Systems, pp. 347-354, Springer-Verlag, 2003. link
- Harry Chen, Tim Finin and Anupam Joshi, An Intelligent Broker for Context-Aware Systems, poster paper, the 5th Annual Conf. on Ubiquitous Computing, Oct. 2003.
- Anugeetha Kunjithapatham, Mithun Sheshagiri, Tim Finin, Anupam Joshi and Yun Peng, Personal Agents on the Semantic Web, poster paper, 2nd Int. Semantic Web Conf., Oct. 2003. link
- Harry Chen, Tim Finin and Anupam Joshi, Semantic Web in a Pervasive Context-Aware Architecture, Workshop on Artifical Intelligence in Mobile Systems, the 5th Annual Conf. on Ubiquitous Computing, 12-15 Oct 2003. link
- Olga Ratsimor, Tim Finin, Anupam Joshi and Yelena Yesha, eNcentive: a framework for intelligent marketing in mobile peer-to-peer environments, 5th Int. Conf. on Electronic Commerce, pp. 87-94, ACM Press, Sept. 2003. link
- James Mayfield and Tim Finin, Information retrieval on the Semantic Web: Integrating inference and retrieval, SIGIR Workshop on the Semantic Web, Toronto, Aug. 2003.
- Grit Denker, Lalana Kagal, Tim Finin, Massimo Paoucci, Katia Sycara, Security for DAML Web Services: Annotation and Matchmaking, 2nd Int. Semantic Web Conf., Sanibel Island FL, Oct. 2003.
- Lalana Kagal, Tim Finin and Anupam Joshi, A Policy Based Approach to Security for the Semantic Web, 2nd Int. Semantic Web Conf., Sanibel Island FL, Oct. 2003.
- Li Ding, Lina Zhou, Tim Finin, Trust Based Knowledge Outsourcing for Semantic Web Agents, 2003 IEEE/WIC Int. Conf. on Web Intelligence, Oct. 2003, Beijing.
- Harry Chen, Tim Finin and Anupam Joshi, Using OWL in a Pervasive Computing Broker, Workshop on Ontologies in Open Agent Systems, AAMAS, July 2003.
- Youyong Zou, Tim Finin, Li Ding, Harry Chen and Rong Pan, Using Semantic Web technology in Multi-Agent Systems: a case study in the TAGA trading agent environment, 5th Int. Conf. On Electronic Commerce: Technologies, pp. 95-101, Pittsburg, Oct. 2003.
- Filip Perich, Anupam Joshi, Tim Finin and Yelena Yesha, On Data Management in Pervasive Computing Environments, IEEE Transactions on Knowledge and Data Engineering, v16, n5, pp. 621-34, May 2004. link
- Mithun Sheshagiri, Marie desJardins, Tim Finin, A Planner for Composing Service Described in DAML-S, Workshop on Web Services and Agent-based Engineering, AAMAS, July 2003. link
- Filip Perich, Anupam Joshi, Yelena Yesha and Tim Finin, Neighborhood-Consistent Transaction Management for Pervasive Computing Environments, 14th Int. Conf. on Database and Expert Systems Applications, Prague, Sept. 2003. link
- Harry Chen, Tim Finin and Anupam Joshi, An ontology for a context aware pervasive computing environments, Workshop on ontologies and distributed systems, IJCAI, Aug. 2003.

- Jeffrey Undercoffer, John Pinkston, Anupam Joshi and Tim Finin, A Target-Centric Ontology for Intrusion Detection, IJCAI Workshop on Ontologies and Distributed Systems, IJCAI, Aug. 2003.
- Youyong Zou, Tim Finin, Li Ding, Harry Chen and Rong Pan, TAGA: Trading Agent Competition in Agentcities, Workshop on Trading Agent Design and Analysis, with 18th Int. Joint Conf. on Artificial Intelligence, Aug. 2003, Acapulco MX.
- Youyong Zou, Tim Finin, Li Ding, Harry Chen and Rong Pan, TAGA: Travel Market Framework in Agentcities, Int. Joint Conf. on Artificial Intelligence, Aug. 2003.
- Li Ding, Tim Finin, Yongmei Shi, Youyong Zou, Zhongli Ding and Rong Pan, Strategies and heuristics used by the UMBCTAC agent in the 3rd Trading Agent Competition, Workshop on Trading Agent Design and Analysis, with the 18th Int. Joint Conf. on Artificial Intelligence, Acapulco MX, Aug. 2003.
- Amit Choudhri, Lalana Kagal, Anupam Joshi, Tim Finin, Yelena Yesha, PatientService : Electronic Patient Record Redaction and Delivery in Pervasive Environments, 5th Int. Workshop on Enterprise Networking and Computing in Healthcare Industry, Santa Monica, June 2003.
- Mithun Sheshagiri, Marie desJardins, Tim Finin, A Planner for Composing Service Described in DAML-S, Workshop on Planning for Web Services, Int. Conf. on Automated Planning and Scheduling, July 2003.
- Vipul Hingne, Anupam Joshi, Tim Finin, Hillol Kargupta, Elias Houstis, Towards a Pervasive Grid, Int. Parallel and Distributed Processing Symposium, April, 2003.
- Lalana Kagal, Tim Finin and Anupam Joshi, A Policy Language for a Pervasive Computing Environment, 4th IEEE Int. Workshop on Policies for Distributed Systems and Networks, June, 2003.
- Sethuram Kodeswaran, Olga Ratsimor, Anupam Joshi, Tim Finin and Yelena Yesha, Using Peer-to-Peer Data Routing for Infrastructure-based Wireless Networks, Int. Conf. on Pervasive Computing and Communications, IEEE, March 2003.
- Olga Ratsimor, Sethuram Balaji Kodeswaran, Tim Finin, Anupam Joshi, Yelena Yesha, Intelligent Ad Hoc Marketing within Hotspot Networks, Technical report TR-CS-03-27, UMBC, March, 2023.
- William Krueger, Jonathan Nilsson, Tim Oates and Tim Finin, Automatically Generated DAML Markup for Semistructured Documents, AAAI Spring Symp. 2003 on Agent-Mediated Knowledge Management, March, 2003.
- Moshe Y. Vardi, Tim Finin, and Tom Henderson, 2001-2002 Taulbee Survey: Survey Results Show Better Balance in Supply and Demand, Computing Research News, Computing Research Association, March 2003.
- Stephen Cranefield, Tim Finin, Valentina Tamma and Stephen Willmott, (eds.).Workshop on Ontologies in Agent Systems, 2nd Int. Joint Conf. on Autonomous Agents and Multi-Agent Systems, Tilburg, The Netherlands, CEUR Publications, 2003.
- Subhash Kumar, Anugeetha Kunjithpatham, Mithun Sheshagiri, Tim Finin, Anupam Joshi, and un. Peng. Sidekick: A Personal agent for the semantic web, Technical Report, UMBC 2002. link
- Sethuram Balaji Kodeswaran, Olga Vladi Ratsimor, Anupam Joshi, Tim Finin, and Yelena Yesha, Numi: A Framework for Collaborative Data Management in a Network of InfoStations, Technical Report, Nov. 2002. link
- Tim Finin, Anupam Joshi, Lalana Kagal, Olga Ratsimore, Sasikanth Avancha, Vlad Korolev, Harry Chen, Filip Perich, R. Scott Cost, Intelligent Agents for Mobile and Embedded Devices, Int. Journal of Cooperative Information Systems v11, n3-4, 2002, pp. 205-230. link
- Dipanjan Chakraborty, Anupam Joshi, Tim Finin and Yelena Yesha, 4th IEEE Conf. on Mobile and Wireless Communications Networks, IEEE Press, Stockholm, Sept. 2002. link
- Stephen Cranefield, Tim Finin and Steve Willmott (Eds.), Workshop on Ontologies in Agent Systems, 1st Int. Joint Conf. on Autonomous Agents and Multi-Agent Systems, Bologna, 16 July 2002. link
- Tim Finin and Anupam Joshi, Agents, Trust and Information Access on the Semantic Web, SIGMOD Record, v31, n4, pp. 30-35, Dec. 2002. link
- Sushama Prasad, Yun Peng, and Tim Finin, Statement of Interest: A Tool For Mapping Concepts Between Two Ontologies, AAAI Workshop on Ontologies and the Semantic Web, AAAAI, July 2002.
- Tim Finin, Manolis Koubarakis, Yannis Labrou, Special Issue on Intelligent Information Agents in the Internet and the WWW Age, Preface, Int. Journal on Artificial Intelligence Tools, 11(1): 1-2 (2002).
- Anupam Joshi, Tim Finin and Yelena Yesha, Me-Services: A Framework for Secure and Personalized Discovery, Composition and Management of Services in Pervasive Environments, in Web Services, E-Business and the Semantic Web, C. Bussler, R. Hull, S. McIlraith, M.E. Orlowska, B. Pernici, J. Yang (Eds.), LNCS 2512, pp. 248-259, Springer, Dec. 2002. (revised version of paper in CAiSE 2002 Int. Workshop, WES 2002, Toronto, Canada, May 27-28, 2002.)
- Olga Ratsimor, Sethuram Balaji Kodeswaran, Anupam Joshi, Tim Finin and Yelena Yesha,Combining Infrastructure and Ad hoc Collaboration For Data Management in Mobile Wireless Networks, Workshop on Ad hoc Communications and Collaboration in Ubiquitous Computing Environments, Conf. on Computer Supported Cooperative Work, ACM, Nov. 2002.

- Subhash Kumar, Anugeetha Kunjithapatham, Mithun Sheshagiri, Tim Finin, Anupam Joshi, Yun Peng and R. Scott Cost, A personal agent application for the semantic web, AAAI Fall Symp. on Personalized Agents, North Falmouth, Nov 15-17, 2002.
- Urvi Shah, Tim Finin Anupam Joshi, R. Scott Cost and James Mayfield, Information Retrieval on the Semantic Web, 10th Int. Conf. on Information and Knowledge Management, Nov. 2002.
- William Krueger, Jonathan Nilsson, Tim Oates and Tim Finin, Automatically Generated DAML Markup for Semistructured Documents, National Science Foundation Workshop on Next Generation Data Mining, Baltimore, Nov. 2002.
- Lalana Kagal, Vlad Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin and Yelean Yesha, Centaurus: An Infrastructure for Service Management in Ubiquitous Computing Environments, Wireless Networks, 8:6, Kluwer, 2002.
- Dipanjan Chakraborty, Filip Perich, Anupam Joshi, Tim Finin, and Yelena Yesha, A Reactive Service Composition Architecture for Pervasive Computing Environments, 7th Personal Wireless Communications Conf., Oct., 2002.
- Olga Ratsimor, Dipanjan Chakraborty, Sovrin Tolia, Deepali Kushraj, Anugeetha Kunjithapatham, Gaurav Gupta, Anupam Joshi, Tim Finin, Allia: Alliance-based Service Discovery for Ad-Hoc Environments, 2nd ACM Int. Workshop on Mobile Commerce, with Mobicom, Sept. 2002. link
- Lalana Kagal, Tim Finin and Anupam Joshi, Developing Secure Agent Systems Using Delegation Based Trust Management, 2nd Int. Workshop on Security of Mobile Multiagent Systems, Int. Joint Conf. on Autonomous Agents and Multi-Agent Systems, pp. 27-34, Bologna, 15-19 July 2002. link
- Lalana Kagal, Jeffrey Undercoffer, Filip Perich, Anupam Joshi, Tim Finin, A Security Architecture Based on Trust Management for Pervasive Computing Systems', Grace Hopper Celebration of Women in Computing 2002. link
- Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, An Approach to Dynamic Service Management in Pervasive Computing, Grace Hopper Celebration of Women in Computing, Oct. 2002. link
- Stephen Cranefield, Steven Willmott and Tim Finin, Introduction to the special issue on ontologies in agent systems, The Knowledge Engineering Review, v17, n1, pp. 1-5, March 2002.
- Sasikanth Avancha, Anupam Joshi, Tim Finin, Enhanced Service Discovery in Bluetooth, IEEE Computer, Vol. 35, No. 6, pp 96-99, June 2002. link
- Sushama Prasad, Yun Peng and Tim Finin, Using Explicit Information To Map Between Two Ontologies, Workshop on Ontologies in Agent Systems, 1st Int. Joint Conf. on Autonomous Agents and Multi-Agent Systems, CEUR, Vol 66, Bologna, July 2002. link
- Naveen Srinivasan and Tim Finin, Enabling Peer to Peer SDP in Agents, 1st Int. Workshop on "Challenges in Open Agent Systems, Conf. on Autonomous Agents and Multiagent Systems, July 2002. link
- Sovrin Tolia, Deepali Khushraj and Tim Finin, ITTalks Event Notification Service An illustrative case for services in the Agentcities Network, 1st Int. Workshop on Challenges in Open Agent Systems, Conf. on Autonomous Agents and Multiagent Systems, July 2002. link
- Sovrin Tolia, Anupam Joshi and Tim Finin, MAGICWEAVER - An AgentBased Simulation Framework for Wireless Sensor Networks, Workshop on Ubiquitous Agents on embedded, wearable and mobile devices, Conf. on Autonomous Agents and Multiagent Systems, Univ. of Bologna, July 2002, link
- Harry Chen and Tim Finin, Beyond Distributed AI, Agent Teamwork in Ubiquitous Computing, Workshop on Ubiquitous Agents on embedded, wearable and mobile devices, Conf. on Autonomous Agents and Multiagent Systems, July 2002.
- Benjamin Grosof, Mahesh Gandhe and Tim Finin, SweetJess: Translating DamlRuleML to Jess, Int. Workshop on Rule Markup Languages for Business Rules on the Semantic Web, 1st Int. Semantic Web Conf., June 2002, Sardinia. link
- Sushama Prasad, Yun Peng and Tim Finin, A tool for mapping between two ontologies using explicit information, AAAI-02 Workshop on Meaning Negotiation, July 2002, AAAI, Edmonton, Canada. link
- Sushama Prasad, Yun Peng and Tim Finin, A tool for mapping between two ontologies, Poster, 1st Int. Semantic Web Conference (ISWC), June 2002.
- Anupam Joshi, Tim Finin and Yelena Yesha, Me-Services: A Framework for Secure and Personalized Discovery, Composition and Management of Services in Pervasive Environments, Workshop on Web Services, e-Business and the Semantic Web: Foundations, Models, Architecture, Engineering and Applications, with CAiSE'02, 14th Int. Conf. on Advanced Information Systems Engineering, Toronto, Ontario, Canada 27 May, 2002. link
- Lalana Kagal, Filip Perich, Harry Chen, Sovrin Tolia, Youyong Zou, Tim Finin, Anupam Joshi, Yun Peng, R. Scott Cost, and Charles Nicholas, Agents Making Sense of the Semantic Web, WRAC 2002 Workshop on Radical Agent Concepts: Innovative Concepts for Agent-Based Systems, Springer, Lecture Notes in Computer Science, v.2564, pp. 417-433, Jan. 2022.

- R. Scott Cost, Tim Finin, Anupam Joshi, Yun Peng, Charles Nicholas, Ian Soboroff, Harry Chen, Lalana Kagal, Filip Perich, Youyong Zou, Sovrin Tolia, ITTALKS: A Case Study in the Semantic Web and DAML+OIL, IEEE Intelligent Systems, v17 n1, Jan./Feb. 2002, pp 40-47. link.
- S. Avancha, D. Chakraborty, H. Chen, L. Kagal, F. Perich, T. Finin, A. Joshi, Issues in Data Management for Pervasive Environments, NSF Workshop on Context Aware Mobile Database Management, Jan. 2002.
- Harry Chen, Sovrin Tolia, Craig Sayers, Tim Finin and Anupam Joshi, Creating Context-Aware Software Agents, First International Workshop on Radical Agent Concepts, McLean, VA, Jan. 2002.
- Tim Finin, Anupam Joshi, Lalana Kagal, Olga Ratsimore, Vlad Korolev and Harry Chen, Information Agents for Mobile and Embedded Devices, 5th Int. Workshop Cooperative Information Agents, LNCS: Volume 2182/2001, Springer, pp. 264-286, 2001.
- Lalana Kagal, Tim Finin and Anupam Joshi, Trust-based security in pervasive computing environments, v34, n12, pp. 154-157, IEEE Computer, Dec. 2001.
- Sasikanth Avancha, Vladimir Korolev, Anupam Joshi and Tim Finin, Transport Protocols in Wireless Networks, 10th Int. Conf. on Computer Communications and Networks, IEEE, Oct. 2001.
- Anupam Joshi, Tim Finin and Yelena Yesha, Agents, Mobility, and M-Services: Creating the next generation applications and infrastructure on mobile ad-hoc networks, Workshop on an Infrastructure for Mobile and Wireless Systems, Scottsdale AZ, 15 Oct. 2001, Revised Papers, edited by Birgitta König-Ries, Kia Makki, S. A. M. Makki, Niki Pissinou and Peter Scheuermann, pp 106-117, Springer, July 2003. link
- Xiaocheng Luan, Yun Peng and Tim Finin, Agent Consumer Reports: of the Agents, by the Agents and for the Agents, 2nd Asia-Pacific Conf. on Intelligent Agent Technology, Maebashi City, Japan, Oct. 2001. link
- Olga Ratsimore, Vladimir Korolev, Anupam Joshi and Tim Finin, Agents2Go: an infrastructure for location-Dependent Service Discovery in the mobile electronic commerce environment, 1st Mobile Commerce Workshop, ACM, July 2001.
- R. Scott Cost, Tim Finin, Anupam Joshi, Yun Peng, Filip Perich, Charles Nicholas, Harry Chen, Lalana Kagal, Youyong Zou and Sovrin Tolia, ITTALKS: A Case Student in how the Semantic Web Helps, 1st Int. Semantic Web Workshop – Infrastructure and Applications for the Semantic Web, pp. 477-494, July 2001
- Stephen Cranefield, Tim Finin and Stephen Willmott (eds.), Proc. Workshop on Ontologies in Agent Systems, 5th Int. Conf. on Autonomous Agents, Montreal, 2001.
- Filip Perich, R. Scott Cost, Tim Finin, Anupam Joshi, Yun Peng, Charles Nicholas, Harry Chen, Lalana Kagal, Youyong Zou and Sovrin Tolia, ITTALKS: An Application of Agents in the Semantic Web, Workshop on Engineering Societies in the Agents' World, July 2001, Prague. link
- R. Scott Cost, Yannis Labrou, and Tim Finin, Coordinating agents using agent communication languages conversations, in Coordination of Internet agents: models, technologies, and applications, A. Omicini, F. Zambonelli, M. Klusch, R. Tolksdorf (Eds.), pp. 183-196, Springer Berlin Heidelberg, 2001.
- Lalana Kagal, Tim Finin and Yun Peng, A Delegation Based Model for Distributed Trust, Workshop on Autonomy, Delegation and Control: Interacting with Autonomous Agents, Int. Joint Conf. on Artificial Intelligence, Aug. 2001.
- Lalana Kagal, Scott Cost, Tim Finin and Yun Peng, A Framework for Distributed Trust Management, Second Workshop on Norms and Institutions in multi-agent systems, 5th Int. Conf. on Autonomous Agents, Montreal, ACM Press, May 2001.
- Lalana Kagal, Vlad Korolev, Harry Chen, Anupam Joshi, Tim Finin, Centaurus: A Framework for Intelligent Services in a Mobile Environment, Int. Workshop on Smart Appliances and Wearable Computing, April 2001.
- Harry Chen, Anupam Joshi,Tim Finin, and Depanjan Chakraborty, Dynamic Service Discovery for Mobile Computing: Intelligent Agents meet Jini in the Aether, Baltzer Science Journal on Cluster Computing, Special Issue on Advances in Distributed and Mobile Systems and Communications, v4, n4, 2001.
- Yves Lespérance, Gerd Wagner, William Birmingham, Kurt Bollacker, Alexander Nareyek, J. Paul Walser, David Aha, Tim Finin, Benjamin Grosof, et al., AAAI 2000 Workshop Reports. AI Mag. 22(1): 127-136 (2001).
- H. Chen, D. Chakraborty, L. Xu, A. Joshi, and T. Finin, Service Discovery in the Future Electronic Market, Workshop on Knowledge Based Electronic Markets, AAAI, 2000.
- R. Scott Cost, Ye Chen, Tim Finin, Yannis Labrou and Yun Peng, Using Colored Petri Nets for Conversation Modeling, in Agent Communication Languages, Frank Dignum and Mark Greaves (ed.), pp. 178-192, Springer, Lecture Notes in AI, 2000.
- Tim Finin and Benjamin Grosof (Eds.), Knowledge Based Electronic Markets: Papers from the AAAI Workshop , AAAI Press, Menlo Park, Aug. 2000.
- Yannis Labrou and Tim Finin,History, State of the Art and Challenges for Agent Communication Languages, Informatik/Informatique, Swiss Federation of Information Processing Societies, Jan. 2000.
- Stephen Quirolgico, Kip Canfield, Tim Finin, and James A. Smith, Merging Neural Networks in a Multi-Agent System, Technical report TR EB-2000-01, UMBC, January 2000.

1990s

- Yannis Labrou and Tim Finin, *Yahoo as an Ontology – using Yahoo categories to describe documents*, Conf. on Information and Knowledge Management, Kansas City, ACM, Nov. 1999. link
- Steven Quirolgico, Kip Canfield and Tim Finin, Communicating neural network knowledge between agents in a simulated arial reconnaissance system, 1st Int. Symp. on Agent Systems and Applications, Palm Springs, Oct. 1999. link
- R. Scott Cost, Tim Finin, Yannis Labrou, Xiaocheng Luan, Yun Peng, Ian Soboroff, James Mayfield and Akram Boughannam, An Agent-based Infrastructure for Enterprise Integration, 1st Int. Symp. on Agent Systems and Applications, Oct. 1999. link
- Tim Finin and Benjamin Grosof (eds), Artificial Intelligence for Electronic Commerce, AAAI Technical Report WS-99-01, 1999.
- Tim Finin,Pfc Users Manual, Technical Report, UMBC, August 1999.
- Ye Chen, Yun Peng, Tim Finin, Yannis Labrou and Scott Cost, Negotiating agents for supply chain management, extended abstract, Workshop on Artificial Intelligence for Electronic Commerce, AAAI, July 1999.
- Yun Peng, Tim Finin, Harry Chen, Ling Wang, Yannis Labrou, R. Scott Cost, Bill Chu, Valerie Cross, Mike Russell, Bill Tolone, Akram Boughannam and Jerry McCobb, An Agent System for Application Initialization in an Integrated Manufacturing Environment, in 3rd World Multiconf. on Systemics, Cybernetics and Informatics and 5th Int. Conf. on Information Systems Analysis and Synthesis, Int. Institute of Informatics and Systemics, pp. 415-421, Aug. 1999.
- Xiaocheng Luan, Yun Peng, and Tim Finin, Learning in Broker Agent, Proc. 16th National Conference on Artificial Intelligence, AAAI, July 1999.
- Yannis Labrou and Tim Finin, *Experiments on using Yahoo! categories to describe documents*, IJCAI99 Workshop on Intelligent Information Integration, IJCAI, July 1999. link
- R. Scott Cost, Ye Chen, Tim Finin, Yannis Labrou and Yun Peng, *Modeling agent conversations with colored petri nets*, Working notes of the Workshop on Specifying and Implementing Conversation Policies, Autonomous Agents '99, May 1999. link
- Ye Chen, Yun Peng, Tim Finin, yannis Labrou, Scott Cost, BIll Chu, Rongming Sun and Bob Willhelm, *A negotiation-based multi-agent system for supply chain management*, Workshop on supply chain management, Autonomous Agents '99, May 1999. link
- R. Scott Cost, Tim Finin, Yannis Labrou, Xiaocheng Luan, Yun Peng, Ian Soboroff and James Mayfield, Agent Development with Jackal", pp. 358-359, Autonomous Agents Conf., ACM, May 1999. link
- Yannis Labrou, Tim Finin and Yun Peng, *The Interoperability Problem: Bringing together Mobile Agents and Agent Communication Languages*, Hawaii Int. Conf. On System Sciences, Jan. 1999. link
- Yannis Labrou, Tim Finin and Yun Peng, "The current landscape of Agent Communication Languages", Intelligent Systems, v14, n2, March/April 1999, IEEE Computer Society. link
- Yun Peng, Tim Finin, Yannis Labrou, R. Scott Cost, B. Chu, J. Long, W. J. Tolone, A. Boughannam, Agent-based approach for manufacturing integration: The CIIMPLEX experience, Applied Artificial Intelligence, v. 13, n. 1-2, 1999.
- Y. Chen, Y. Peng, T. Finin, Y. Labrou, S. Cost, B. Chu, R. Sun and R.G. Wilhelm, A Negotiation-based Multi-agent System for Supply Chain Management, Workshop on Agents for Electronic Commerce and Managing the Internet-Enabled Supply Chain, Third Int. Conf. on Autonomous Agents, May 1999.
- Muhammad Abdallah Rabi, Tim Finin, Alan Sherman, and Yannis K Labrou, Secure Knowledge Query Manipulation Language: a security infrastructure for agent communication languages, Technical Report, Nov. 1998, UMBC.
- Keith Decker, Tim Finin, Chris Manning, Munindar Singh and Jan Treur, Implementing Multi-Agent Systems: Languages, Frameworks and Standards, AAAI Workshop on Software Tools for Developing Agents, July 1998, AAAI Press.
- Mike Grasso, David Ebert and Tim Finin, *The integrality of Speech in Multimodal Interfaces*, ACM Transactions on Human-computer interactions, 5(4):303-325, 1998. link
- R. Scott Cost, Tim Finin, Yannis Labrou, Xiaocheng Luan, Yun Peng, Ian Soboroff, James Mayfield and Akram Boughannam, Jackal: a Java-based Tool for Agent Development, AAAI Workshop on Software Tools for Developing Agents, pp.73-82, AAAI Press. link
- Tim Finin, Yun Peng and Yannis Labrou, Mobile agents can benefit from standards efforts on interagent communication, IEEE Communications Magazine, Vol. 36, no. 7, pp. 50-56, July 1998, special issue on Mobile Software Agents for Telecommunications. link

- Y. Peng, T. Finin, Y. Labrou, B. Chu, B. Tolone, J. Long and A. Boughannam, A multi-agent system for enterprise integration, Int. Journal of Agile Manufacturing, special issue on Innovative Software Support for Agile Manufacturing. v1, n2, pp. 201-212, 1998. link
- Bill Chu, W. Tolone, J. Long, R. Willhelm, Y. Peng, T. Finin and M. Mathews, Towards Intelligent Integrated Manufacturing Planning-Execution, Int. Journal of Agile Manufacturing, v1, n1, pp. 77-93, 1997.
- W. Tolone, B. Chu, J. Long, R. Wilhelm, T. Finin, Y. Peng and A. Boughannam, Supporting Human Interactions within Integrated Manufactuing Systems, Int. Journal of Advanced Manufacturing Systems, v1, n2, pp. 221-234, 1998.
- Qi He, Katia Sycara and Tim Finin, Personal Security Agent: KQML-based Public Key Infrastructure, ACM Conf. on Autonomous Agents, pp. 377 - 384, May, 1998. link
- Y. Peng, T. Finin, Y. Labrou, B. Chu, B. Tolone and J. Long, A multi-agent system for enterprise integration, *3rd Int. Conf. and Exhibition on The Practical Application of Intelligent Agents and Multi-Agent Technology*, London, March 1998.
- R. Scott Cost, Tim Finin, Jeegar Lakhani, Ethan Miller, Charles Nicholas and Ian Soboroff, *Developing communicating software agents in Tcl*, Agent Theories, Architectures and Languages IV, M. Wooldridge, J. P. Muller and M. Tambe (eds). Lecture Notes in Artificial Intelligence, Springer, 1998. link
- Michael A. Grasso, David Ebert and Tim Finin, The effect of perceptual structure on multimodal speech recognition interfaces, Technical report, 1998, Ebiquity Lab, UMBC.
- Yannis Labrou and Tim Finin, Towards a Standard for an Agent Communication Language, AAAI Fall 1997 Symp. on Communicative Action in Humans and Machines, Nov. 1997, MIT, Cambridge MA.
- Mike Grasso, David Ebert and Tim Finin, Acceptance of a Speech Interface for Biomedical Data Collection, AMIA Annual Fall Symp., pp. 739-743, 1997.
- Yannis Labrou and Tim Finin, Semantics for an Agent Communication Language, Intelligent Agents IV: Agent Theories, Architectures, and Languages, pp 209-214, Lecture Notes in Computer Science, vol. 1365. Springer, July, 1997.
- R. Scott Cost, Ian Soboroff, Jeegar Lakhani, Tim Finin and Ethan Miller, TKQML: A Scripting Tool for Building Agents, 4th Int. Conf. on Agent Theories, Architectures and Languages, pp. 339-343, Springer, July, 1997.
- R. Scott Cost, Tim Finin, Jeegar Lakhani, Ethan Miller, Charles Nicholas and Ian Soboroff, Developing communicating software agents in Tcl, the 4th Int. Workshop on Agent Theories, Architectures and Languages, USENIX, Boston, MA, July, 1997.
- Yannis Labrou and Tim Finin, Semantics and Conversations for an Agent Communication Language, in Readings in Agents, Michael Huhns and Munindar Singh (eds), pp. 235-242, Morgan Kaufmann, 1997. (Reprinted from IJCAI-97 paper).
- Ramesh S. Patil, Richard E. Fikes, Peter F. Patel-Schneider, Don McKay, Tim Finin, Thomas Gruber and Robert Neches, The DARPA Knowledge Sharing Effort: Progress Report in Readings in Agents, Michael Huhns and Munindar Singh (eds), Morgan Kaufmann Publishers, Inc., 1997.
- R. Scott Cost, Tim Finin, Jeegar Lakhani, Ethan Miller, Charles Nicholas and Ian Soboroff, *Agent Development Support for Tcl*, poster and extended abstract, 5th Annual Tcl/Tk Workshop '97, July 14-17, 1997 Boston. link
- Yannis Labrou and Tim Finin, Semantics and Conversations for an Agent Communication Language, 15th Int. Joint Conf. on Artificial Intelligence, pp. 584-591, Aug. 1997.
- Tim Finin, Yannis Labrou and James Mayfield, KQML as an agent communication language, in Jeff Bradshaw (Ed.), Software Agents, MIT Press, Cambridge, (1997). link
- Mike Grasso and Tim Finin, *Task Integration in Multimodal Speech Recognition Environments*, ACM Crossroads, 3(3):19-22, Spring, 1997. link
- James Mayfield and Tim Finin. A Security Architecture for Agent Communication Languages, Technical Report, 1997, UMBC.
- B. Chu, J. Long, W.J. Tolone, R. Wilhelm, Y. Peng, T. Finin, and M. Matthews, Towards Intelligent Integrated Planning-Execution, International Journal of Advanced Manufacturing Systems, v1, n1, pp.77-83, 1997.
- B. Chu, B. W. Tolone, R. Wilhelm, M. Hegedus, J. Fesko, T. Finin, Y. Peng, C. Jones, J. Long, M. Matthews, J. Mayfield, J. Shimp, S. Su, Integrating Manufacturing Softwares for Intelligent Planning-Execution: A CIIMPLEX Perspective, Plug and Play Software for Agile Manufacturing, SPIE Int. Symp. of Intelligent Systems and Advanced Manufacturing, Boston, Nov. 1996.
- Donald McKay, Jon Pastor, Robin McEntire and Tim Finin, An architecture for information agents, in Advanced Planning Technology, (ed. Austin Tate.), pp. 187-194, AAAI Press, Menlo Park CA, May 1996.
- James Mayfield, Yannis Labrou and Tim Finin, Evaluation of KQML as an Agent Communication Language, in Intelligent Agents Volume II – 1995 Workshop on Agent Theories, Architectures and Languages, M. Wooldridge, J. P. Muller and M. Tambe (eds). Lecture Notes in Artificial Intelligence, Springer, 1996.

- Chelliah Thirunavukkarasu, Tim Finin and James Mayfield, *Secret Agents – A Security Architecture for the KQML agent communication language*, *ACM CIKM Intelligent Information Agents Workshop*, Baltimore, Dec. 1995. link
- Tim Finin, Chelliah Thirunavukkarasu, Anupama Potluri, Donald McKay and Robin McEntire, *On Agent Domains, Agent Names and Proxy Agents*, *ACM CIKM Intelligent Information Agents Workshop*, Baltimore, Dec. 1995. link
- James Mayfield, Tim Finin, William MacCartney, Chetan Shah and Rajkumar Narayanaswamy, Cycic Friends Network: getting Cyc agents to reason together, CIKM Intelligent Information Agents Workshop, Baltimore, Dec. 1995.
- James Mayfield, Yannis Labrou and Tim Finin, Evaluation of KQML as an Agent Communication Language, IJCAI-95 Workshop on Agent Theories, Architectures and Languages, Montreal, Quebec, 19-20 Aug. 1995.
- James Mayfield, Marty Hall and Tim Finin, Using Automatic Memoization as a Software Engineering Tool in Real-World AI Systems, Conf. on Artificial Intelligence for Applications, pp. 87-93, March 1995, IEEE.
- James Mayfield, Yannis Labrou and Tim Finin, Desiderata for Agent Communication Languages, AAAI Spring Symposium on Information Gathering in Distributed Environments, March 1995, AAAI.
- Tim Finin, Rich Fritzson, Don McKay and Robin McEntire, KQML: An Information and Knowledge Exchange Protocol, in Kazuhiro Fuchi and Toshio Yokoi (Ed.), Knowledge Building and Knowledge Sharing, Ohmsha and IOS Press, 1994.
- Rich Fritzson, Tim Finin, Don McKay and Robin McEntire. KQML - A Language and Protocol for Knowledge and Information Exchange, 13th Int. Distributed Artificial Intelligence Workshop, July 28-30, 1994: Seattle WA, AAAI.
- Tim Finin, Richard Fritzson, Don McKay and Robin McEntire, KQML as an agent communication language. In 3rd Int. Conf. on Information and knowledge management, Nabil R. Adam, Bharat K. Bhargava and Yelena Yesha (Eds.). ACM, New York, pp. 456-463, 1994. **CIKM 2018 Test of Time Award, for CIKM papers published in 2008 or earlier that had an important and sustained impact on the research community**
- Yannis Labrou and Tim Finin, A semantics approach for KQML – a general purpose communication language for software agents, 3rd Int. Conf. on Information and Knowledge Management, pp. 447-455, Gaithersburg, MD, ACM, Nov. 1994.
- Martha Palmer, Rebecca Passonneau, Carl Weir and Tim Finin, The Kernel Natural Language Processing System, Artificial Intelligence, v63, Issue (1–2), pp 17-68, Oct. 1993.
- Tim Finin, Don McKay, Rich Fritzson and Robin McEntire, KQML: An Information and Knowledge Exchange Protocol, Int. Conf. on Building and Sharing of Very Large-Scale Knowledge Bases, Tokyo, Dec., 1993. link
- Bharat Bhargava, Yelena Yesha and Tim Finin, (eds.), CIKM '93: Proceedings of the second international conference on Information and knowledge management, ACM, 1993.
- Tim Finin, Charles K. Nicholas, Yelena Yesha, Information and Knowledge Management, Expanding the Definition of "Database", Selected papers from the First International Conference, CIKM'92, Springer, 1993.
- Ramesh Patil, Richard Fikes, Peter Patel-Schneider, Donald P McKay, Tim Finin, Thomas Gruber, and Robert Neches, The DARPA Knowledge Sharing Effort: Progress Report, 3rd Int. Conf on Principles Of Knowledge Representation And Reasoning, Morgan Kaufmann, 1992.
- Tim Finin, Charles Nicholas and Yelena Yesha (eds.), CIKM '92: Proceedings of the first international conference on Information and knowledge management, Baltimore, MD, 1992.
- Jon Pastor, Don Mckay and Tim Finin, View-Concepts: Knowledge-Based Access to Databases, 1st Int. Conf. on Information and Knowledge Management, Baltimore, Nov. 1992.
- Tim Finin, Rich Fritzson and Don McKay, A Language and Protocol to Support Intelligent Agent Interoperability, 4th National Symp. on Concurrent Engineering, CE & CALS Conf., Washington, DC June 1992.
- Tim Finin, Rich Fritzson and Don McKay, A Language and Protocol to Support Intelligent Agent Interoperability, *Workshop on Enabling Technologies for Concurrent Engineering*, Concurrent Engineering Research Center, Morgantown, WV, April 1992. link
- KQML Advisory Group, An Overview of KQML: A Knowledge Query and Manipulation Language, April 1992
- Jon Pastor, Don Mckay and Tim Finin, *View-Concepts: Knowledge-Based Access to Databases*, Loom Users Workshop, Marina Del Rey, California, March 1992. link
- R. Neches, R. Fikes, T. Finin, T. Gruber, R. Patil, T. Senator and W. Swartout, Enabling Technology for Knowledge Sharing, AI Magazine, v. 12, N. 3, pp 37-56, 1991. link
- Carl Weir, Tim Finin, Robin McEntire and Barry Silk, A Three-Tiered Approach to Integrating Information Retrieval and Natural Language Processing, American Society for Information Science Workshop on Language and Information Processing, Washington, D.C., Oct. 1991.
- Tim Finin, Robin McEntire, Carl Weir and Barry Silk, A Three-Tiered Approach to Natural Language Text Retrieval, AAAI Workshop on Natural Language Text Retrieval, AAAI, July, 1991.

- Carl Weir, Tim Finin, Robin McEntire and Barry Silk, Unisys: Description of the Unisys system used for MUC-3, 3rd Message Understanding Conf., San Diego, May 1991. link
- Robert Kass and Tim Finin, General User Modeling: a Facility to Support Intelligent Interaction, in Intelligent User Interfaces, Joseph W. Sullivan and Sherman W. Tyler (eds), May 1991, pp. 111–128, ACM Frontier Series, Addison-Wesley.
- Carl Weir, Robin McEntire, Barry Silk and Tim Finin, Unisys: MUC-3 test results and analysis, 3rd Message Understanding Conf., San Diego, May 1991. link
- Carl Weir, Tim Finin, Barry Silk, Marcia Linebarger, and Robin McEntire, Knowledge-based strategies for robust text-understanding, 8th Annual Intelligence Community AI/Advance Computing Symposium, March 1991.
- Tim Finin and James McGuire, Inheritance in logic programming knowledge bases. In Inheritance hierarchies in knowledge representation and programming languages, pp. 291-310, Maurizio Lenzerini, Daniele Nardi and Maria Simi (Eds.), John Wiley and Sons Ltd., Chichester, UK, March 1991.
- Tim Finin, Aravind K. Joshi, and Bonnie Webber, Natural Language Interactions with Artificial Experts, reprinted in Peter G. Raeth (ed), Expert Systems: A Software Methodology for Modern Applications, pp.279–296, IEEE Computer Society Press, March 1991.
- Tim Finin, Interactive Classification: A Technique for Acquiring and Maintaining Knowledge Bases, reprinted in Peter G. Raeth (ed), Expert Systems: A Software Methodology for Modern Applications, pp. 297-304, IEEE Computer Society Press, March 1991.
- Don McKay, Tim Finin and Anthony O'Hare, The Intelligent Database Interface, National Conf. on Artificial Intelligence, Boston, Aug. 1990, AAAI.
- Rebecca Passoneau, Carl Weir, Tim Finin and Martha Palmer, Integrating Natural Language Processing and Knowledge Based Processing, 1990 National Conf. on Artificial Intelligence, Boston, Aug. 1990, pp. 976-983, AAAI.
- Tim Finin and Jim McGuire, Inheritance in Logic Programming Knowledge Bases, extended abstract, *ICLP'90 Workshop on Structuring Disciplines for Logic Programming*, Int. Conf. on Logic Programming, Israel, June 1990.
- Martha Palmer and Tim Finin, Workshop on the Evaluation of Natural Language Processing Systems, Computational Linguistics, v16, n3, pp. 175-181, Sept., 1990.
- Tim Finin and Dave Matuszek, The Proper Role of an Intelligent Agent in Human-Machine Interfaces, AAAI Spring Symposium on Knowledge-Based Human-Computer Communication, Palo Alto, AAAI, March, 1990.
- David Matuszek and Tim Finin, Human-Machine Interface Tools - An Overview and Underview, in 3rd Unisys Software Engineering Symposium, Jan. 1990.
- Shimon Schocken and Tim Finin, Meta-Interpreters for Rule-Based Inference Under Uncertainty, Decision Support Systems, v6 n2, pp. 165-181, 1990.
- Tim Finin and David Klein, Characterizing Knowledge Depth in Intelligent Safety Systems in Causal AI Models: Steps Towards Applications, Werner Horn (ed), Hemisphere Publishing Corporation, pp. 45-58, 1990.

1980s

- Tim Finin and David Klein, Characterizing Knowledge Depth in Intelligent Safety Systems, Applied Artificial Intelligence, v3, n2-3, pp 129-142, (special issue on Towards Causal AI Models in Practice), Taylor & Francis, 1989. (Reprinted in Causal AI Models: Steps Towards Applications, Werner Horn (ed), Hemisphere Publishing Corporation, pp. 45-58, 1990.)
- Rebecca Passonneau, Carl Weir and Tim Finin, Interfacing natural language processing and knowledge-based processing in Pundit, DARPA Spoken Language/Natural Language Meeting, Harwich Port, MA. October, 1989.
- Martha Palmer, Tim Finin, and Sharon Walter, Workshop on the Evaluation of Natural Language Processing Systems, Unisys Paoli Research Center, Technical report RADC-TR-89-302, December 1989.
- Tim Finin and Jim McGuire, A Hierarchical Database Model with Inheritance for a Logic Programming Language, Workshop on Inheritance Hierarchies in Knowledge Representation and Programming Languages, Viareggio, Italy, Feb. 6-8, 1989.
- Tim Finin and Rich Fritzson,How to Serve Knowledge - Notes on the Design of a Knowledge Base Server, AAAI Spring Symp. on Knowledge System Development Tools and Languages, Palo Alto, March 1989, AAAI.
- Tim Finin, Rich Fritzson and Dave Matuszek, Adding Forward Chaining and Truth Maintenance to Prolog, IEEE Conf. on Artificial Intelligence Applications, pp. 123-130, Miami, IEEE, March 1989.
- Tim Finin and Gary Morris, Abductive Reasoning in Multiple Fault Diagnosis, Artificial Intelligence Review, 3, pp 129-158, 1989.
- Tim Finin, Gums — A General User Modeling Shell, in Kobsa and Wahlster (eds.), User Models in Dialog Systems, Springer Symbolic Computation Series, pp. 411-430, Springer, 1989.

- Tim Finin, Rich Fritzson, Don McKay and Robin McEntire, The Intelligent System Server: Delivering AI to Complex Systems, (extended abstract), 7th Annual Intelligence Community AI/Advanced Computing Symp., Reston, Va, Oct. 1989.
- Tim Finin, Rich Fritzson, Don McKay, Robin McEntire and Anthony O'Hare, The Intelligent System Server: Delivering AI to Complex Systems, IEEE International Workshop on Tools for Artificial Intelligence, Fairfax VA, pp. 306-313, Oct. 1989.
- Robert Kass and Tim Finin, The Role of User Models in Cooperative Interactive Systems, Int. Journal of Intelligent Systems, v1, n4, pp. 81-112, 1989.
- John D. Keenan and Tim Finin, Developing an Expert System for Hazardous Waste Remediation, Journal of Resource Management and Technology, v17, n4, 1989.
- Robert Kass and Tim Finin, Modeling the User in Natural Language Systems, Computational Linguistics, 14:3 (pp. 5-22), Sept. 1988, ACL.
- Tim Finin, Default Reasoning and Stereotypes in User Modeling, Int. Journal of Expert Systems, v1, n2, pp 131-158, July 1988.
- Robert Kass and Tim Finin, Acquiring User Models for Tailoring Explanations, (extended abstract), AAAI Workshop on Explanations, eds. M. Wick, C. Paris, W. Swartout, and W. Thompson, pp. 48-54, Seattle WA, AAAI, Aug, 1988.
- Robert Kass and Tim Finin, The Need for User Models in Generating Expert System Explanations, Int. Journal of Expert Systems, 1:4, pp 345-376, 1988.
- Robert Kass and Tim Finin, General User Modeling: A Facility to Support Intelligent Interaction, Workshop on Architectures for Intelligent Interfaces: Elements and Prototypes, ACM SIGCHI and AAAI, Monterey, March, 1988.
- Robert Kass and Tim Finin, A General User Modeling Facility, ACM Conf. of Human Factors in Computing Systems, pp. 145-150, Washington DC, ACM, June 1988.
- Matuszek, David, Tim Finin, Rich Fritzson and Chris Overton, Endpoint Relations on Temporal Intervals, 3rd Annual Rocky Mountain Conf. on Artificial Intelligence, pp. 182-188, June 1988.
- Tim Finin and James McGuire, A Hierarchical Database Model for a Logic Programming Language, Technical Report MS-CIS-88-22, Univ. of Pennsylvania, Dept. of Computer and Information Science, March 1988.
- Tim Finin and David Klein, On the Requirements of Active Expert Systems, 7th Int. Conf. on Expert Systems and their Application (Avignon '87), pp. 1199-1207, Avignon, France, May 1987.
-
- Shimon Schocken and Tim Finin, Prolog Meta-Interpreters for Rule-Based Inference Under Uncertainty, GBA Working paper 87-91, New York Univ., Sept. 1987.
- Tim Finin and Joshua Levy, BBC, A BlackBoard Generating System, (extended abstract), AAAI Workshop on Blackboard Systems , AAAI, 13 July 1987.
- Tim Finin and Martha Palmer, Parsing with Logical Variables, in L. Bolc (ed.), Natural Language Parsing Systems, pp. 33-48, Springer, 1987. (revised version of the 1983 ACL paper)
- Tim Finin and John Keenan, Developing an Expert System for Hazardous Waste Remediation, 3rd Int. Symp. on Industrial Resource Management, New York, Feb. 1987.
- Hui, Alan, Michael Feinberg and Tim Finin, DMA: A Depression Treatment Planning System Using an Expectation Driven Advisement Paradigm, (extended abstract), Workshop on Artificial Intelligence in Medicine, AAAI, 1987.
- Robert Kass, Ron Katriel and Tim Finin, Breaking the Primitive Concept Barrier, Proc. 3rd Conf. on Artificial Intelligence Applications, pp. 66-73, IEEE, Feb. 1987.
- Robert Kass and Tim Finin, Rules for the Implicit Acquisition of Knowledge about the User, National Conf. on Artificial Intelligence, AAAI, July 1987.
- Klein, David and Tim Finin, What's in a Deep Model - A Characterization of Knowledge Depth in Intelligent Safety Systems, 10th Int. Joint Conf. on Artificial Intelligence, Aug. 1987.
- Tim Finin, Bonnie Webber and Aravind K. Joshi, Natural Language Interactions with Artificial Experts, Proceedings of the IEEE, pp. 921-938, v74, n7, IEEE, July 1986.
- Tim Finin, Interactive Classification: A Technique for Acquiring and Maintaining of Knowledge Bases, Proc. the IEEE, pp. 1414-1421, v74, n10, IEEE, Oct. 1986.
- Tim Finin, Understanding Frame Languages, Part I, AI Expert, v1 n3, pp 44-50, Nov. 1986.
- Tim Finin, Understanding Frame Languages, Part II – Implementing PFL, AI Expert, v1, n4, pp 51-56, Dec. 1986.
- Tim Finin, Constraining the Interpretation of Nominal Compounds in a Limited Context, in Analyzing Language in Restricted Domains, Grishman and Kitterage (ed.), Lawrence Erlbaum Associates, pp. 163-174, 1986.
- Tim Finin, PFL - A Pedagogical Frame Language. Technical Report MS-CIS-86-72, LINC LAB 35, Computer and Information Science Department, University of Pennsylvania, Philadelphia, PA, USA, June 1986.

- Tim Finin and David Drager, GUMS - A General User Modeling System, Proc. Sixth Canadian Conference on Artificial Intelligence, Canadian Society for Computational Studies of Intelligence, May 1986.
- Tim Finin and David Drager, GUMS1: A General User Modeling System, HLT'86: Workshop on Strategic computing natural language of the Human Language Technology, ACL, May 1986.
- Robert Kass and Tim Finin, User Models in Intelligent Interfaces: Why They are Needed, Problems with Their Implementation, AAAI Workshop on Intelligence in Interfaces, AAAI, 14 Aug. 1986.
- Robert Kass and Tim Finin, The role of user models in question answering systems, Technical report no MS-CIS-86-63 (Linc Lab 30), Computer and Information Science, University of Pennsylvania, 1986.
- Ethel Schuster and Tim Finin, VP2 - The Role of User Modeling in Correcting Errors in Second Language Learning, in A.G. Cohn and J.R. Thomas (ed). Artificial Intelligence and its Applications, pp. 197-209, Wiley, 1986.
- Aravind Joshi. Tim Finin, Dale Miller, Lokendra Shastri and Bonnie Webber,Research in Natural Language Processing, Human Language Technology Conf., Workshop on Strategic Computing: Natural Language, Marina del Rey, pp 30-36, May 1986.
- Tim Finin and David Silverman, Interactive Classification as a Knowledge Acquisition Tool, in L. Kerschberg (Ed.), Expert Data Base Systems, pp. 79-90, Benjamin/Cummings Publishing Co., Menlo Park CA, 1986.
- Tim Finin and Norm Badler, Computer Graphics and Expert Systems, *Computer Graphics and Applications*, v5, n11, Nov. 1985.
- Schuster, Ethel and Tim Finin, VP2: The Role of User Modeling in Correcting Errors in Second Language Learning, Conf. on Artificial Intelligence and the Simulation of Behavior (AISB), April 1985.
- Tim Finin, John McAdams and Pamela Kleinosky, FOREST - An Expert System for Automatic Test Equipmen, 1st IEEE Conf. on Artificial Intelligent Applications, pp. 350-356. Denver, CO, IEEE, Dec. 1984.
- Tim Finin, Constraining the Interpretation of Nominal Compounds in a Limited Context, Proc. Workshop on Sublanguage Description and Processing, R. Grishman and R. Kittredge (eds.), Jan. 19-20, 1984, NYU.
- Tim Finin and Bonnie Webber, BUP: a bottom up parser, Technical Report MS-CIS-84-18, University of Pennsylbania, Nov. 1984.
- Tim Finin and David Silverman, Interactive Classification - A Technique for the Acquisition and Maintenance of Knowledge Bases, Proceedings of the 1984 IEEE conference on Principles of knowledge-based systems, pp. 107-114, Denver, Dec. 1984.
- A.E. Howe and T. Finin. Using Spreading Activation to Identify Relevant Help, 5th Biennial Conf. of the Canadian Society for Computational Studies of Intelligence, London, Ontario, Canada, pp. 25-28, May 1984.
- Tim Finin, John McAdams and Pam Kleinosky, Expert Systems for Automatic Test Equipment, Conf. on Intelligent Systems and Machines, Oakland Univ., Rochester, MI, April 1984.
- Bonnie Webber and Tim Finin, Expert Questions - Adapting to Users' Needs, Technical Report MS-CIS-84-19, Computer and Information Science, University or Pennsylvania, 1984.
- Bonnie Webber and Tim Finin, In Response: Next Steps in Natural Language Interaction, in W. Reitman (ed.), Artificial Intelligence Applications for Business, pp. 211-234, Ablex Publishing, 1984.
- Tim Finin and Martha Stone Palmer, Parsing with logical variables. In 1st Conf. on Applied Natural Language Processing, pp. 62-68, Association for Computational Linguistics, 1983.
- Tim Finin, Providing help and advice in task oriented systems, 8th Int. Joint Conf. on Artificial Intelligence, pp. 176-178, Morgan Kaufmann, 1983.
- Tim Finin, Aravind Joshi, Anthony Kroch, Ellen Prince, Gillian Sankoff, Bonnie Webber, Scott Weinstein and Ralph Weischedel, Computational Linguistics Research at the University of Pennsylvania, Computational Linguistics, pp. 95-100, v9, n2, ACL, 1983.
- Tim Finin, The Planes Interpreter and Compiler for Augmented Transition Network Grammars, in Leonard Bolc (ed.), The Design of Interpreters, Compilers and Editors for Augmented Transition Networks, Springer, pp. 1-69, 1983.
- Tom Kehler, Avron Barr, Tim Finin, Peter Friedland, Mike Genesereth, Jim Miller, Mark Miller, Elliot Soloway and Harry Tennant, Intelligent Assistance for Complex Systems, ACM '82 Conf., ACM, 1982.
- Shrager, Jeff and Tim Finin, An Expert System that Volunteers Advice, 2nd Annual National Conf. on Artificial Intelligence, AAAI, 1982.
- Tim Finin, Translating KL-One from Interlisp to FranzLisp, in R. Brachman, J. Schmolze et al. (Eds.), 2nd KL-ONE Workshop, BBN Report No. 4842, BBN Laboratories, Cambridge MA, pp 104-112, June 1982. Also published as FLAIR Report 4, Schlumberger Research, Palo Alto, 1982.
- Tim Finin,The Interpretation of Nominal Compounds in Discourse, Technical Report MS-CIS-82-03, Computer and Information Science, University of Pennsylvania, 1982.
- Tim FInin, An Algorithm for Parsing Nominal Compounds, Technical Report MS-CIS-81-12, Computer and Information Systems, University of Pennsylvania, Dec. 1981.

- Tim Finin, The Semantic Interpretation of Nominal Compounds, in 1st Annual National Conf. on Artificial Intelligence, AAAI, 1980.
- Tim Finin, The semantic interpretation of compound nominals, PhD dissertation, Univ. Illinois, Urbana-Champaign, 1980.

1970s

- Tim Finin, Brad Goodman and Harry Tennant, JETS: Achieving Completeness Through Coverage and Closure, 6th Int. Joint Conf. on Artificial Intelligence, Aug. 1979.
- Tim Finin, Casting the Rendezvous Analyzer Rules into Augmented Transition Network Form, IBM Research Report RJ 2146, IBM Research Laboratory, San Jose, CA, November, 1978.
- Tim Finin and George Hadden, Augmenting ATNs, 5th Int. Joint Conf. on Artificial Intelligence, Morgan Kofmann, Aug. 1977.
- Tim Finin, An Interpreter and Compiler for Augmented Transition Networks, M.S. Thesis, University of Illinois Urbana Champaign, July 1977.
- Tim Finin and Paul Rutter, Different fringe for different folk, SIGART Newsletter, No. 60, pp. 4-5, ACM, Nov. 1976.
- David Lee Waltz, Tim Finin, Fred Green, Forrest Conrad, Bradley Goodman, and George D. Hadden, The Planes System: Natural Language Access to a Large Data Base, Report T-34, Coordinated Science Laboratory, University of Illinois, Urbana-Champaign, Nov. 1976.
- Tim Finin, Tracking Wires on Printed Circuit Boards, Working Paper 52, Artificial Intelligence Laboratory, M.I.T., 1974.
- Tim Finin, Finding the Skeleton of a Brick, AI Memo 287, Artificial Intelligence Laboratory, M.I.T., 1973.
- Tim Finin, A Vision Potpourri, Working Paper 26, Artificial Intelligence Laboratory, M.I.T., 1972.
- Tim Finin, Two Problems in Analyzing Scenes, Working Paper 12, Artificial Intelligence Laboratory, M.I.T., 1971.

Biographical sketch

Tim Finin is a professor of Computer Science and Electrical Engineering UMBC and holds the Willard and Lillian Hackerman Chair in Engineering. He has over 50 years of experience in applying AI to problems in information systems and language understanding. His current research is focused on representing and reasoning with knowledge graphs, analyzing and extracting information from text, and enhancing security and privacy in information systems. Finin received an S.B. degree in Electrical Engineering from MIT and a Ph.D. degree in Computer Science from the University of Illinois at Urbana-Champaign. He has held positions at UMBC, Unisys, the University of Pennsylvania, Johns Hopkins University, and the MIT AI Laboratory. He is an ACM fellow, a AAAI fellow, an IEEE technical achievement award recipient, and was selected as the UMBC Presidential Research Professor in 2012.