

Dr. Timothy Wilking Finin

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Research Interests

Artificial intelligence, Semantic Web, knowledge and database systems, multiagent systems, natural language processing and information retrieval, applications involving mobile and pervasive computing and electronic commerce.

Education

- Ph.D. in Computer Science, University of Illinois, Urbana-Champaign, 1980. dissertation: The Semantic Interpretation of Compound Nominals (advisor: David L. Waltz)
- M.S. in Computer Science, University of Illinois, Urbana-Champaign, 1977. thesis: An Interpreter and Compiler for Augmented Transition Networks (advisor: David L. Waltz)
- S.B. in Electrical Engineering, Massachusetts Institute of Technology, 1971. thesis: Three Problems in Analyzing Scenes (advisor: Patrick H. Winston)

Employment

- 99- 01: Director, Institute for Global Electronic Commerce, UMBC, Baltimore, MD.
- 95-: Professor of Computer Science and Electrical Engineering, UMBC.
- 91-95: Professor and Chair, Department of Computer Science, UMBC.
- 87-91: Technical Director, Knowledge Based Information Processing, Unisys Center for Advanced Information Technology, Paoli PA
- 87-91: Adj. Assoc. Professor, Computer and Information Science, U. of Pennsylvania, Philadelphia PA
- 80-87: Assistant Professor, Computer and Information Science, U. of Pennsylvania, Philadelphia PA
- 74-80: Research Assistant, Research Associate, Coordinated Science Lab, U. of Illinois, Urbana IL
- 77: Visiting Research Staff, Computer Science Department, IBM Research Lab, San Jose CA
- 71-74: Research Staff, Artificial Intelligence Laboratory, M.I.T., Cambridge MA
- 70: Research Assistant, The Cambridge Project, M.I.T., Cambridge MA

Recent relevant publications <http://www.cs.umbc.edu/~finin/cv/#publications> for a copies.

- Pranam Kolari, Tim Finin and Anupam Joshi, SVMs for the Blogosphere: Blog Identification and Spam Detection, AAAI Spring Symp. on Computational Approaches to Analysing Weblogs, Stanford, 2006.
- Lalana Kagal and Tim Finin, Modeling Conversation Policies using Permissions and Obligations, Journal of Autonomous Agents and Multi-Agent Systems, to appear, 2006.
- Akshay Java, Tim Finin and Sergei Nirenburg, Text understanding agents and the Semantic Web, 39th Hawaii Int. Conf. on System Sciences, 4-6 January, 2006.
- Jim Parker, Anand Patwardhan, Filip Perich, Anupam Joshi and Tim Finin, "Trust in Pervasive Computing", in Mobile Middleware, to appear, 2006.

- Mike Huhns et. al, "Research Directions for Service-Oriented Multiagent Systems," IEEE Internet Computing, v9, n6, pp. 65-70, 2005.
- Li Ding, Tim Finin, Anupam Joshi, Yun Peng, Rong Pan and Pavan Reddivari, Search on the Semantic Web, IEEE Computer, October 2005.
- Anand Patwardhan et al., Active Collaborations for Trustworthy Data Management in Ad Hoc Networks, 2nd IEEE Int. Conf. on Mobile Ad-Hoc and Sensor Systems, November 2005, Washington DC.
- M. Burstein et al., A Semantic Web Services Architecture, IEEE Internet Computing, pp52-61, v9n5, 2005.
- Li Ding et al., Finding and Ranking Knowledge on the Semantic Web, Proc. 4th Int. Semantic Web Conf., Galway IE, Nov. 2005.
- Tim Finin, Li Ding, Lina Zhou and Anupam Joshi, Social Networking on the Semantic Web, Learning Organization Journal, v12, n5, pp 418-435, 2005.
- Tim Finin, James Mayfield, Anupam Joshi, R. Scott Cost and Clay Fink, Information Retrieval and the Semantic Web, Proc. 38th Int. Conf. on System Sciences, Hawaii, January 2005.
- Youyong Zou, Tim Finin Harry Chen, F-OWL: an Inference Engine for Semantic Web, in M. Hinchey et al., (ed), Formal Approaches to Agent Based Systems, Springer LNCS, v3228, December 2004.
- Li Ding, Tim Finin and Anupam Joshi, Analyzing Social Networks on the Semantic Web, IEEE Intelligent Systems, v9n1, 2005.
- 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, v8n6, 2004.
- Li Ding, et al., Swoogle: A Search and Metadata Engine for the Semantic Web, Thirteenth ACM Conf. on Information and Knowledge Management, Washington DC, November 2004.
- Lalana Kagal et al., Authorization and Privacy for Semantic Web Services, IEEE Intelligent Systems, pp50-56, v19n4, 2004.
- Filip Perich et al., In Reputation We Believe: Query, Processing in Mobile Ad-Hoc Networks Proc. Int. Conf. on Mobile and Ubiquitous Systems: Networking and Services, Boston, August 2004.
- Harry Chen et al., SOUPA: Standard Ontology for Ubiquitous and Pervasive Applications, Processing in Mobile Ad-Hoc Networks Proc. Int. Conf. on Mobile and Ubiquitous Systems: Networking and Services, Boston, August 2004.
- Harry Chen et al., Intelligent Agents Meet Semantic Web in a Smart Meeting Room, The Third Int. Joint Conf. on Autonomous Agents and Multi Agent Systems, New York, July 19-23 July, 2004.

Synergistic Activities: I am currently an editor-in-chief of the Journal of Web Semantics and a member of the scientific advisory committee for Computation Sciences and Engineering Division of Oak Ridge National Laboratory. I have served as the past program chair or general chair of several major conferences, including the IEEE Conference on Artificial Intelligence for Applications, The ACM Conference on Information and Knowledge Management, ACM Autonomous Agents conference and the ACM Conference on Mobile and Ubiquitous Computing. I was a member of the W3C web ontology working group which has developed the specification for the OWL web ontology language. I am a former AAAI councilor and am a member of the board of directors of the Computing Research Association.

Collaborators: Bernard Burg (HP Labs), R. Scott Cost (UMBC), Stephen Cranefield (Ontago), Jonathan Dale (Fujitsu), Grit Denker (SRI), Marie desJardins (UMBC), Benjamin Grosf (MIT), Jim Hendler (UMCP), Elias Houstis (Purdue), Anupam Joshi (UMBC), Jim Just (GITI), Hillol Kargupta (UMBC), Manolis Koubarakis (TU Crete), Yannis Labrou (Fujitsu), Neo Martinez (RMBC), James Mayfield (JHU), Tim Oates (UMBC), Lin Padgham (RMIT), Massimo Paolucci (CMU), Yun Peng (UMBC), John Pinkston (UMBC), Jim Quinn (UC Davis), John Schnase (NASA), Carles Sierra (Spanish Research Council), Ian Soboroff (NIST), Katia Sycara (CMU), Stephen Willmott (UPC), Yelena Yesha (UMBC), Lina Zhou (UMBC), **Advisor:** David Waltz (Columbia), Patrick Winston (MIT). **Ph.D. Advisees:** R. Scott Cost (UMBC), Mohammad Rabi, Michael Grasso, Ellis Clarke, Yannis Labrou (Fujitsu), Olga Streltchenko, Lalana Kagal, Hary Chen.