

# Dr. Timothy Wilking Finin

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## Professional Preparation

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

## Appointments

- 17- Willard and Lillian Hackerman Chair in Engineering, UMBC
- 91-: Professor of Computer Science and Electrical Engineering, UMBC
- 14-15: Johns Hopkins University (Sabbatical leave)
- 07-: Research Scientist, Human Language Technology Center of Excellence, Johns Hopkins Univ.
- 07-08: Johns Hopkins Applied Physics Laboratory (Sabbatical leave)
- 99- 01: Director, Institute for Global Electronic Commerce, UMBC, Baltimore, MD
- 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 & 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 (profiles on [Google Scholar](#) and [DBLP](#))

- Ramin Ayanzadeh, Milton Halem, and Tim Finin, Reinforcement Quantum Annealing: A Hybrid Quantum Learning Automata, Nature Scientific Reports, v10, n1, May 2020.
- Jennifer Sleeman, Tim Finin, and Milton Halem, Temporal Understanding of Cybersecurity Threats, IEEE International Conference 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 International FLAIRS Conference, AAAI Press, May 2020.
- Taneeya Satyapanich, Tim Finin and Francis Ferraro, CASIE: Extracting Cybersecurity Event Information from Text, 34th AAAI Conf. on Artificial Intelligence, Feb. 2020.
- Ankur Padia, Konstantinos Kalpakis, Francis Ferraro and Tim Finin, Knowledge Graph Fact Prediction via Knowledge-Enriched Tensor Factorization, Journal of Web Semantics, 2019.
- 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, Routledge, 2020.

## Other significant publications

- Maithilee Joshi, Karuna P. Joshi and Tim Finin, Delegated Authorization Framework for EHR Services using Attribute Based Encryption, IEEE Transactions on Services Computing, to appear, 2019.
- Sudip Mittal, Anupam Joshi and Tim Finin, Cyber-All-Intel: An AI for Security related Threat Intelligence arXiv preprint, arXiv:1905.02895 [cs.AI], May 2019.
- Ankur Padia, Francis Ferraro, and Tim Finin, Team UMBC-FEVER: Claim verification using Semantic Lexical Resources, Workshop on Fact Extraction and Verification (with EMNLP), Nov. 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.
- 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, to appear, Emerging Topics in Semantic Technologies, E. Demidova, A.J. Zaveri, E. Simperl (Eds.), ISBN: 978-3-89838-736-1, AKA Verlag Berlin, 2018.
- 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.

## Synergistic Activities

- I have mentored 30 Ph.D. students who have completed their degrees at UMBC or the University of Pennsylvania and have one who is currently developing a proposal. I have mentored more than 30 M.S. students who have done a thesis.
- I have received more than 90 research awards, contracts and gifts to support research from government agencies and companies, including support from NSF, DARPA, NSA, NASA, NIST, ONR and AFOSR.
- I was an editor-in-chief of the Elsevier Journal of Web Semantics (2006-2016). This journal was established in 2003 and is ranked second by Google Scholar Metrics in the category *Database and Information Systems*. I am co-editor of Viewpoints opinion column in the Communications of the ACM (2013-present).
- I am a former AAAI councilor and former member of the board of directors of the Computing Research Association. I am an ACM Fellow (2018), a AAAI Fellow (2013), UMBC Presidential Research Professor (2012-2015), FIPA Fellow (1997) and IEEE Technical Achievement Award recipient (2009). I was appointed as the Willard and Lillian Hackerman Chair in Engineering at UMBC in 2017.
- I have been involved in a number of significant standardization efforts. I was a member of the DARPA-NSF Knowledge Sharing Effort in the 1990s that defined standards for multi-agent systems as well subsequent FIPA effort that followed. I served as a member of the W3C Web Ontology Working Group that developed the specification for the OWL Semantic Web ontology language and the PI of one of the original DARPA DAML program projects that explored and evolved Semantic Web technology. I was a member of the W3C CSV on the Web Working Group that is developing a recommendation to provide higher interoperability when working with datasets using the CSV (Comma-Separated Values) or similar formats.
- I have been general or program chair of major conferences, including IEEE Conference on Artificial Intelligence for Applications (twice), ACM Conference on Information and Knowledge Management (twice), ACM Autonomous Agents Conference, ACM Conference on Mobile and Ubiquitous Computing, the International Semantic Web Conference, AAAI's *AI and the Web* track (twice), and IEEE Conference on Intelligence and Security Informatics.