

George Thomas

CONTACT INFORMATION	Computer Science, 800 Algoma Blvd. Oshkosh, WI 54901	<i>Tel:</i> 920-424-2069 <i>E-mail:</i> thomasg@uwosh.edu
RESEARCH INTERESTS	Artificial Intelligence, with focus on Coordination, Task Allocation and Market-based mechanisms in Multiagent Systems; Machine Learning and Natural Language Processing; Robotics	
EDUCATION	University of Iowa , Iowa City, IA Ph.D., Computer Science University of Iowa , Iowa City, IA M.S., Computer Science University of Kerala , India B.Tech., Computer Science & Engineering	
PUBLICATIONS	George Thomas , “An Optimal Algorithm for Dynamic Heterogeneous Team Restructuring in Budget Constrained Domains”, In <i>Journal of Computing Sciences in Colleges</i> , 31(5), May 2016, 62-69. George Thomas , Matthew Zahm and David Furcy, “Using a Sentence Compression Pipeline for the Summarization of Email Threads in an Archive”, In <i>Journal of Computing Sciences in Colleges</i> , 31(2), December 2015, 72-78 George Thomas , “Towards Dynamic Heterogeneous Team Restructuring in Task Allocation Domains”, In <i>Journal of Computing Sciences in Colleges</i> , 30(5), May 2015, 153-159. David Furcy and George Thomas , “Designing Effective Heterogeneous Teams for Multiagent Routing Domains”, In <i>Tenth IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT)</i> , Lyon, France, August 22-27, 2011. George Thomas and Andrew B. Williams, “Sequential Auctions for Heterogeneous Task Allocation in Multiagent Routing Domains”, In <i>2009 IEEE International Conference on Systems, Man, and Cybernetics (SMC)</i> , October 11-14, 2009. George Thomas and Andrew B. Williams, “Empirical Evaluation of Factors Affecting Heterogeneous Task Allocation”, In <i>Twentieth Midwest Artificial Intelligence and Cognitive Science Conference (MAICS)</i> , April 18-19, 2009. George Thomas , Michael A. Grassi, John R. Lee, Albert O. Edwards, Michael B. Gorin, Ronald Klein, Thomas L. Casavant, Todd E. Scheetz, Edwin M. Stone, and Andrew B. Williams, “IDOCs: Intelligent Distributed Ontology Consensus System - The Use of Machine Learning in Retinal Drusen Phenotyping” In <i>Investigative Ophthalmology and Visual Sciences (IOVS)</i> , 48(5), May 2007, 2278-2284. Tasha R. Inniss, Marc Light, George Thomas , John R. Lee, Michael A. Grassi and Andrew B. Williams, “Towards Applying Text Mining and Natural Language Processing for Biomedical Ontology Acquisition”, In <i>ACM First International Workshop on Text Mining in Bioinformatics (TMBIO)</i> November 10, 2006.	

George Thomas and Andrew B. Williams, “Allocating Heterogeneous Tasks to Heterogeneous Robot Teams”, In *AAAI Workshop on Auction Mechanisms for Robot Coordination*, pages 80-85, Boston, Massachusetts, July 17, 2006.

Andrew B. Williams, **George Thomas**, Michael A. Grassi and John R. Lee, “IDOCs: Collaboratively Describing and Classifying the Features of AMD with Machine Learning”, *Invest Ophthalmol Vis Sci.* 2006;47:ARVO E-Abstract 2096/B675. Florida, USA. April 30-May 4, 2006.

George Thomas and Andrew B. Williams, “Roles in the Context of Multiagent Task Relationships”, In *AAAI Fall Symposium on Roles, An Interdisciplinary Perspective*, Arlington, Virginia, November 4-6, 2005.

George Thomas, Ayanna M. Howard, Andrew B. Williams, and Aryen Moore-Alston, “Multi-Robot Task Allocation in Lunar Mission Construction Scenarios”, In *Proc. IEEE Intl. Conf. on Systems, Man and Cybernetics*, Hawaii, USA, October 10-12 2005.

Andrew B. Williams, Todd Krygowski and **George Thomas**, “Using Agents to Reach an Ontology Consensus”, In *First International Conference on Autonomous Agents and Multi-Agent Systems*, July 15-19, Bologna, Italy, 2002.

ACADEMIC
EXPERIENCE

Computer Science Dept., University of Wisconsin Oshkosh, Oshkosh, WI
Associate Professor Fall 2016 - Present
Assistant Professor Fall 2010 - Spring 2016
Lecturer Fall 2009 - Spring 2010

PROFESSIONAL
EXPERIENCE

New Products Engineering, Stockpoint Inc, Coralville, IA

Lead Software Engineer

- Managed a team of four programmers to research, design and implement new chart and portfolio products for financial services sector.
- Supervised a team of fifteen in requirements gathering, design and implementation of integrated financial websites for multiple, large financial services clients.
- Managed the Stock Alerts Engine product, including product design, implementation, customer delivery and maintenance.

Software Engineer

- Designed and implemented a stock ticker, GIFWatchlist, interactive and static charts, and an integrated portfolio product that displayed real time and historic stock information and allowed for detailed analysis.
- Implemented an internal Enterprise Server for the Portfolio and Chart products to support thousands of hits and improve performance, scalability and robustness.
- Customized various stock tools for integration into websites for multiple clients.

TALKS AND
PRESENTATIONS

CCSC-Mid South Conference 2016, Memphis, Tennessee. Presented paper “An Optimal Algorithm for Dynamic Heterogeneous Team Restructuring in Budget Constrained Domains”.

CCSC-Rocky Mountains Conference 2015, Cedar City, Utah. Presented paper “Using a Sentence Compression Pipeline for the Summarization of Email Threads”

CCSC-Central Plains Conference 2015, Branson, Missouri. Presented paper “Towards Dynamic Heterogeneous Team Restructuring in Task Allocation Domains”.

IAT Conference 2011, Lyon, France, August 22-27, 2011. Presented paper “Designing Effective Heterogeneous Teams for Multiagent Routing Domains”.

MAICS Conference 2009, Fort Wayne, Indiana, April 18-19, 2009. Presented paper “Empirical Evaluation of Factors Affecting Heterogeneous Task Allocation”.

AAAI 2006 Workshop on Auction Mechanisms for Robot Coordination in Boston, Massachusetts, July 17, 2006. Presented paper “Allocating Heterogeneous Tasks to Heterogeneous Robot Teams”.

AAAI Fall Symposium on Roles, An Interdisciplinary Perspective, Arlington, Virginia, November 6, 2005. Presented paper “Roles in the Context of Multiagent Task Relationships”.

SERVICE &
MEMBERSHIPS

Member of ACM and SIGCSE.
Reviewer for EAAI 2016.
Reviewer for CCSC-RM 2015.
Reviewer for Journal *Software: Practice and Experience*.

SKILLS

Java, C, C#, C++, Visual Basic, Python, Matlab, Perl, PHP.
MySQL, MS SQL Server, Eclipse, JBoss, Tomcat, Apache, MS SourceSafe, SVN,
Git, L^AT_EX, SPSS, WEKA, Windows, Linux, MacOS.