Michael Eugene Thompson

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EDUCATION

University of Wisconsin – Madison, Madison, Wisconsin.
Ph.D. in Computer Science, May 2007 (expected).
M.S. in Computer Science, December 2003.

Central College, Pella, Iowa.
B.A. in Computer Science, May 1998.
B.A. in Mathematics, May 1998.
Minor in Philosophy.

PUBLICATIONS

Journal Articles

O. L. Mangasarian and M. E. Thompson. Massive Data Classification via Unconstrained Support Vector Machines. Data Mining Institute Technical Report 06-01, March 2006. *Journal of Optimization Theory and Applications* 131(3), December 2006, 315-325.

O. L. Mangasarian, J. B. Rosen and M. E. Thompson. Nonconvex Piecewise-Quadratic Underestimation for Global Minimization. Data Mining Institute Technical Report 05-01, March 2005. *Journal of Global Optimization* 34(4), 2006, 475-488.

O. L. Mangasarian, J. B. Rosen and M. E. Thompson. Convex Kernel Estimation of Functions with Multiple Local Minima. Data Mining Institute Technical Report 04-02, May 2004. *Computational Optimization and Applications* 34(1), 2006, 35-45.

O. L. Mangasarian, J. B. Rosen and M. E. Thompson. Global Minimization via Piecewise-Linear Underestimation. Data Mining Institute Technical Report 03-03, June 2003. *Journal of Global Optimization* 32, 2005, 1-9.

Technical Reports

O. L. Mangasarian and M. E. Thompson. Chunking for Massive Nonlinear Kernel Classification. Data Mining Institute Technical Report 06-07, December 2006.

Michael Eugene Thompson

EXPERIENCE

Computer Sciences Department, University of Wisconsin – Madison
Research Assistant Summer 2002 – Present
Investigated methods of using optimization techniques to find global minima of nonconvex functions, as well as using unconstrained optimization to solve large classification problems under the supervision of Professor Olvi Mangasarian.

Computer Sciences Department, University of Wisconsin – Madison
Teaching Assistant Fall 2001 – Present
Led discussion sections for the introductory computer science course, including developing and grading assignments. Responsible for office hours and grading for graduate-level optimization courses.

Computer Sciences Department, University of Wisconsin – Madison
Graduate Admissions Committee Member Spring 2006
Worked with other graduate students and faculty members to decide on graduate school admissions and fellowship nominees for fall 2006.

Advanced Technologies Group, Inc., West Des Moines, Iowa
Programmer/Consultant May 1998 – July 2001
Developed Visual Basic and web-based applications using Active Server Pages. Interacted with clients to specify project scope and functionality.

Math/Computer Science Department, Central College
Student Assistant Academic Year 1997 - 1998
Tutored for Math and Computer Science courses. Also proofread and tested *Mathematica* labs for Exploring Abstract Algebra with Mathematica by Allen C. Hibbard and Kenneth M. Levasseur.