

Selin Damla Ahipaşaoğlu

222 University Avenue Apt. 5
Ithaca, NY 14850
(607) 342-4139

EDUCATION *Ph.D.*, Operations Research
Cornell University, Ithaca, NY, expected May 2009
Advisor: Prof. Michael J. Todd
Concentration: Mathematical Programming
Minors: Computer Science, Applied Mathematics

M.S., Industrial Engineering
Bilkent University, Ankara, Turkey, June 2004
Advisor: Prof. Barbaros Tansel
Thesis Title: A Survey on Network Location Problems

B.S., Industrial Engineering
Bilkent University, Ankara, Turkey, June 2002

RESEARCH INTERESTS Convex optimization, especially first-order methods for large scale problems
Continuous optimization
Semidefinite programming
Design, analysis, and implementation of algorithms
Geometric Optimization

EXPERIENCE *Instructor* Fall 2008
School of Operations Research and Industrial Engineering, Cornell University

Research Assistant Summer 2006-present
School of Operations Research and Industrial Engineering, Cornell University

Teaching Assistant Summer 2005-Spring 2006
School of Operations Research and Industrial Engineering, Cornell University

Teaching Assistant Fall 2002-Spring 2004
Department of Industrial Engineering, Bilkent University

PUBLICATIONS Refereed Journal Publications

Ahipaşaoğlu, S.D. and Yıldırım, E. A. Identification and Elimination of Interior Points for the Minimum Enclosing Ball Problem. *To appear in SIAM Journal on Optimization*.

Ahipaşaoğlu, S.D., Sun P., and Todd M.J. Linear Convergence of a Modified Frank-Wolfe Algorithm for Computing Minimum-Volume Enclosing Ellipsoids. *Optimization Methods and Software*, (23)5-19, 2008.

Refereed Conference Proceedings

Ahipaşaoğlu, S.D. and Todd, M. J. The Minimum-Area Enclosing Ellipsoidal Cylinder

Problem. Proceedings of the Fall Workshop on Computational Geometry, IBM T.J. Watson Research Center, November, 2007.

Work in Progress

Ahipaşaoğlu, S.D. and Todd, M. J. A Modified Frank-Wolfe Algorithm for Computing Minimum-Area Enclosing Ellipsoidal Cylinders: Theory and Algorithms.

TALKS

How to Solve Optimal Experimental Design Problems? INFORMS Annual Meeting, Washington D.C., October 2008. (*invited talk*)

What is Operations Research? CURIE Academy, Cornell University, Ithaca, July 2008. (*lecture*)

A Modified Frank-Wolfe Algorithm for Computing Minimum-Area Enclosing Ellipsoidal Cylinders: Theory and Algorithms. SIAM Conference on Optimization, Boston, May 2008. (*session chair*)

Optimal Design Problems. Continuous Optimization Seminar, Cornell University, Ithaca, April 2008.

The Minimum-Area Enclosing Ellipsoidal Cylinder Problem. Fall Workshop on Computational Geometry, IBM T.J.Watson Research Center, November, 2007.

Linear Convergence of a Modified Frank-Wolfe Algorithm for Computing Minimum-Volume Enclosing Ellipsoids. Second Mathematical Programming Society International Conference on Continuous Optimization, McMaster University, Hamilton, Canada, August 2007. (*invited talk*)

A Survey on Vehicle Routing Problems, EURO-INFORMS, Istanbul, Turkey, June 2003.

AWARDS

SIAM Student Travel Award for SIOPT in Boston, May 2008

IBM Travel Grant for Fall Workshop on Computational Geometry in IBM T.J.Watson Research Center, November 2007

NSF Travel Grant for ICCOPT-MOPTA in Hamilton, Canada, August 2007

McMullen Fellowship, Cornell University, August 2004 - May 2005

Full undergraduate tuition waiver and stipend awarded by Bilkent University, 1998 - 2002.

Ranked 11th among over 1.5 million entrants in the Turkish Nationwide University Admissions Exam, June 1998

REFERENCES

Prof. Michael J. Todd, Cornell University, mjt7@cornell.edu
Prof. David B. Shmoys, Cornell University, shmoys@orie.cornell.edu
Prof. Adrian S. Lewis, Cornell University, aslewis@orie.cornell.edu
Prof. Barbaros Tansel, Bilkent University, barbaros@bilkent.edu.tr