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EDUCATION	 Ph.D., Operations Research Cornell University, Ithaca, NY, August 2009 Concentration: Mathematical Programming (Prof. Michael J. Todd) Minor: Computer Science (Prof. Charles van Loan) Minor: Applied Mathematics (Prof. Adrian Lewis)
	M.S., Operations Research Cornell University, Ithaca, NY, August 2007
	M.S., Industrial Engineering Bilkent University, Ankara, Turkey, June 2004 Advisor: Prof. Barbaros Tansel
	B.S., Industrial Engineering Bilkent University, Ankara, Turkey, June 2002
RESEARCH INTERESTS	Combinatorial auctions, game theory, combinatorial optimization
	Convex optimization, especially first-order methods for large scale problems
	Semidefinite programming
	Compressed sensing, covariance selection, sparse PCA
EXPERIENCE	Research Officer Sep 20010-Present Management Science Group, London School of Economics
	Guest Instructor: Nonlinear Opt. (PhD) and Optimization (UG)Spring 2010Operations Research and Financial Engineering, Princeton UniversitySpring 2010
	Research AssociateSep 2009-Aug 2010Operations Research and Financial Engineering, Princeton University
	Instructor: Engineering Applications of Operations Research (UG) Fall 2008 Operations Research and Information Engineering, Cornell University
	Research Assistant/Teaching AssistantSummer 2005-Spring 2009Operations Research and Information Engineering, Cornell University
	Research Assistant/Teaching Assistant Fall 2002-Spring 2004 Department of Industrial Engineering, Bilkent University

PUBLICATIONS Refereed Journal Publications

Ahipaşaoğlu, S. D. and Todd, M. J. A Modified Frank-Wolfe Algorithm for Computing Minimum-Area Enclosing Ellipsoidal Cylinders: Theory and Algorithms. *under revision for Special Issue of Computational Geometry: Theory and Applications on "Geometric Aspects of Optimization"*.

Ahipaşaoğlu, S. D. and Yıldırım, E. A. Identification and Elimination of Interior Points for the Minimum Enclosing Ball Problem. *SIAM Journal on Optimization*, (19)1392-1396, 2008.

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

Book Chapters

REPORTS

Krishnamurthy, V., Ahipaşaoğlu, S. D., and d'Aspremont, A. A Pathwise Algorithm for Covariance Selection. In Sra, S., Nowozin, S., Wright, S. J., *Optimization for Machine Learning*, MIT Press, Cambridge, MA, USA, 2011.

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 inAhipaşaoğlu, S. D. and Steinberg, R.J. Analytical Results on A Decentralized Auc-
tion.PROGRESStion.

Ahipaşaoğlu, S. D. and Steinberg, R.J. A Combinatorial Auction Revisited: Refinement and Extension of the PAUSE Auction Procedure.

Bach, F., Ahipaşaoğlu, S. D., and d'Aspremont, A. Convex Relaxations for Subset Selection. arxiv.org/abs/1006.3601v1, 2010.

Ahipaşaoğlu, S. D., The Minimum Volume Ellipsoid Estimator Problem: Exact and Inexact Methods.

THESES andAhipaşaoğlu, S.D., Solving Ellipsoidal Inclusion and Optimal Experimental Design**TECHNICAL**Problems: Theory and Algorithms. Cornell University, Ithaca, NY, August 2009.

Ahipaşaoğlu, S.D., A Survey on Network Location Problems. Bilkent University, Ankara, Turkey, August 2004.

Ahipaşaoğlu, S.D., Erdogan, G. and Tansel, B. Location-routing problems: a review and assessment of research directions, Working Paper lEOR 2003-07, Bilkent University, Ankara, Turkey, July 2003.

Analytical Results on the PAUSE Auction Procedure.

- 1. Southampton Management School, Southampton, UK, Aug 2011.
- 2. International Conference in Game Theory, Stony Brook, NY, July 2011.
- Department of Management, London School of Economics and Political Science, London, March 2011.
- 4. Mathematical Institute, University of Oxford, Oxford, March 2011.
- 5. Seminar on Discrete Mathematics and Game Theory, London School of Economics and Political Science, London, March 2011.
- 6. Management Science and Operations, London Business School, April 2011.

7. Convex Relaxations for Subset Selection. Foundations of Computational Mathematics Conference, Budapest, Hungary, July 2011.

Approximating Sets with Simple Bodies: Theory, Algorithms, and Geometry.

- 8. Department of Management, London School of Economics and Political Science, London, January 2010.
- MGH Radiation Oncology Physics Seminar, Harvard University, Boston, November 2008.

10. A Pathwise Algorithm for Covariance Selection. OPT 2009: 2nd NIPS Workshop on Optimization for Machine Learning, Whistler, Canada, December, 2009.

11. The Minimum Volume Ellipsoid Estimator Problem: A Discussion. INFORMS Annual Meeting, San Diego, October 2009.

A Modified Frank-Wolfe Algorithm for Computing Minimum-Area Enclosing Ellipsoidal Cylinders: Theory and Algorithms.

- The 20th International Symposium of Mathematical Programming, Chicago, August 2009.
- DIMACS Workshop on Algorithmic Challenges in Optimization, Game Theory and Computer Science: in Memory of Leo Khachiyan, Rutgers University, New Brunswick, March 2009.
- INFORMS Student Chapter Club Distinguished Lecture Series, Lehigh University, Bethlehem, February 2009.
- 15. ORIE Colloquium, Cornell University, Ithaca, March 2009.
- 16. SIAM Conference on Optimization, Boston, May 2008.
- 17. Continuous Optimization Seminar, Cornell University, Ithaca, April 2008.
- Fall Workshop on Computational Geometry, IBM T.J.Watson Research Center, November, 2007.

Identification and Elimination of Interior Points for the Minimum Enclosing Ball Problem.

- 19. MOPTA, Bethlehem, August 2009.
- 20. Continuous Optimization Seminar, Cornell University, Ithaca, April 2009.

21. How to Solve Optimal Experimental Design Problems? INFORMS Annual Meeting, Washington D.C., October 2008.

TALKS

	22. What is Operations Research? CURIE Academy, Cornell University, Ithaca, July 2008.
	23. Linear Convergence of a Modified Frank-Wolfe Algorithm for Computing Minimum- Volume Enclosing Ellipsoids. Second Mathematical Programming Society Interna- tional Conference on Continuous Optimization (ICCOPT-MOPTA), McMaster Uni- versity, Hamilton, Canada, August 2007.
	24. A Survey on Vehicle Routing Problems, EURO-INFORMS, Istanbul, Turkey, June 2003.
AWARDS	Travel Grant for FoCM in Budapest, July 2011.
	Core Invitation for <i>Modern Trends in Optimization and Its Application, OP2010</i> as junior researcher. (rejected due to prior commitment.)
	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
	Dean's High Honor List, Bilkent University, 1998-2002 (graduated in $2^n d$ place (out of 89) in class of 2002.)
	Full tuition waiver and stipend awarded by Bilkent University, 1998-2004
	Isbankasi Altin Genc Odulu (11^{th} place), given to the first 60 students over 1.5 million entrants in the Turkish Nationwide University Admissions Exam, June 1998
REVIEWER	Mathematical Programming SIAM Journal on Optimization Discrete Applied Mathematics Optimization Methods and Software Journal of Global Optimization International Journal of Geographical Information Science
SOCIETY	Mathematical Programming Society Game Theory Society SIAM INFORMS
SKILLS	Turkish (Native Speaker) Modern Greek (Intermediate)
	MATLAB, Python, C/C++, HTML (Advanced) CVX, AMPL, SEDUMI (Advanced) Microsoft Office, LATEX (Advanced)

REFERENCES Richard J. Steinberg, London School of Economics Michael J. Todd, Cornell University Alexandre d'Aspremont, Princeton University David B. Shmoys, Cornell University Adrian S. Lewis, Cornell University Barbaros Tansel, Bilkent University