

Name: **David Shmoys**

Title: Professor

Office: Frank H T Rhodes Hall, Room 231

Phone: (607)255-9146

Email: shmoys@cs.cornell.edu

University Activities

- computed university final exam schedules
- Department of Computer Science, Computational Biology recruiting committee

Professional Activities

- Vice-Chair, IEEE Technical Committee Mathematical Foundations of Computing
- Served on 2008 APPROX program committee
- Served on 2008 INFORMS Nicholson prize committee
- Serving on 2009 INFORMS Nicholson prize committee
- MPS, Council Member for Publications
- SIGACT/ACM, Executive Committee Awards Coordinator
- Communications of the ACM, coordinator for research contributions for theoretical computer science
- SIAM J. on Discrete Math, Editorial Board
- Mathematics of Operations Research, Editorial Board

Publications

- "A constant approximation algorithm for the one-warehouse-multi-retailer Problem," with R. Levi, R. Roundy, and M. Sviridenko, *Management Science*, 54(4), 2008, 763-776.
- "A constant approximation algorithm for the a priori traveling salesman problem", with Kunal Talwar, *Proceedings of the 13th MPS Conference on Integer Programming and Combinatorial Optimization*, 2008, 331-343.
- "Primal-dual schema for capacitated covering problems", with Tim Carnes, *Proceedings of the 13th MPS Conference on Integer Programming and Combinatorial Optimization*, 2008, 288-302.
- "Fault-tolerant facility location", with Chaitanya Swamy. *ACM Transactions on Algorithms* 4(4): (2008)
- "Sum-of-ratios optimization with a capacity constraint", with P. Rusmevichientong, and Z. J. Max Shen, to appear in *Operations Research Letters*, June 2009.

Lectures

- "Primal-dual approximation algorithms for capacitated covering problems," Technical University of Eindhoven, October 2008.
- "Approximation algorithm for stochastic optimization problems," (4-hour tutorial), New Algorithmic Paradigms in Optimization, ETH-Zurich, July 2008.

- “A constant approximation algorithm for the *a priori* TSP”, New Algorithmic Paradigms in Optimization, Ascona, July 2008.