Graduate Seminar on Discrete Optimization Integral Multiflows

Talks:

- 1. A. Gupta, I. Newman, Y. Rabinovich, and A. Sinclair [2004]: Cuts, trees l_1 -embeddings of graphs.
 - Combinatorica, 2004, 24, 2, 233–269.
- 2. A. Chakrabarti, A. Jaffe, J.R. Lee, and J. Vincent [2008]: *Embeddings of topological graphs: Lossy invariants, linearization, and 2-sums.* FOCS, 2008, 761–770.
- 3. J.R. Lee and P. Raghavendra [2010]: Coarse differentiation and multi-flows in planar graphs.
 - Discrete Computational Geometry, 2010, 43, 346–362.
- 4. C. Chekuri, A. Gupta, I. Newman, Y. Rabinovich, and A. Sinclair [2006]: $Embedding\ k$ -outerplanar graphs into l_1 .
 - SIAM Journal on Discrete Mathematics, 20, 1, 119–136.
- 5. C. Chekuri, F.B. Shepherd, and C. Weibel [2010]: Flow-cut gaps for integer and fractional multiflows.

 SODA, 2010, 1198–1208.
- 50DA, 2010, 1190 1200.
- 6. N. Garg, V.V. Vazirani, and M. Yannakakis [1997]: Primal-dual approximation algorithms for integral flow and multicut in trees.

 Algorithmica, 1997, 18, 3–20.
- 7. V. Guruswami, S. Khanna, R. Rajamaran, F.B. Shepherd, and M. Yanna-kakis [2003]: Near-optimal hardness results and approximation algorithms for edge-disjoint paths and related problems.

 Journal of Computer and System Sciences, 2003, 67, 473–496.
- 8. C. Chekuri, S. Khanna, and F.B. Shepherd [2004]: Edge-disjoint paths in planar graphs.
 - FOCS, 2004, 71–80.

- 9. C. Chekuri, S. Khanna, and F.B. Shepherd [2006]: Edge-disjoint paths in planar graphs with constant congestion.

 STOC, 2006, 757–766.
- 10. J. Chuzhoi [2011]: Routing in undirected graphs with constant congestion.
- 11. L. Seguin-Charbonneau and F.B. Shepherd [2011]: Maximum edge-disjoint paths in planar graphs with congestion 2. FOCS, 2011, 200–209.
- J. Chuzhoy, V. Guruswami, S. Khanna, and K. Talwar [2007]: Hardness of routing with congestion in directed graphs. STOC, 2007, 165–178.
- 13. M. Andrews, J. Chuzhoy, V. Guruswami, S. Khanna, K. Talwar, and L. Zhang [2010]: *Inapproximability of edge-disjoint paths and low congestion routing on undirected graphs*. Combinatorica, 2010, 30, 5, 485–520.