Publications list - Andrea Montanari

Book


Review Papers, Lecture Notes and Book Chapters


A. Dembo and A. Montanari (2009), Gibbs Measures and Phase Transitions on Sparse Random Graphs, Brazilian Journal of Probability and Statistics, 24, 137-211


Journal Papers


A. Javanmard and A. Montanari (2012), Localization from Incomplete Noisy Distance Measurements, Foundations of Computational Mathematics: 1-49


A. Montanari (2005), *Tight bounds for LDPC and LDGM codes under MAP decoding*, IEEE Transactions on Information Theory, 51, 3221-3246


**Conference Papers**


Y. Kanoria and A. Montanari (2011), *Subexponential convergence for information aggregation on regular trees*, 50th IEEE Conference on Decision and Control, Orlando, Florida


M. Bayati and A. Montanari (2010), *The dynamics of message passing on dense graphs, with applications to compressed sensing*, Proceedings of the IEEE International Symposium on Information Theory, Austin, TX, June 2010

Y. Kanoria and A. Montanari (2010), *On the deletion channel with small deletion probability*, Proceedings of the IEEE International Symposium on Information Theory, Austin, TX, June 2010


M. Bayati, R.H. Keshavan, A. Montanari, S. Oh, and A. Saberi, *Generating random Tanner-graphs with large girth*, Proceedings of the IEEE Information Theory Workshop, Taormina, Italy


S. Jalali, A. Montanari and T. Weissman (2009), *An Implementable Scheme for Universal Lossy Compression of Discrete Markov Sources*, Data Compression Conference, Snowbird, Utah, USA.
M. Bayati, A. Montanari and A. Saberi (2009), *Generating Random Graphs with Large Girth*, Proceedings of Symposium of Discrete Algorithms (SODA), New York, USA.


**Papers under Review**


Y. Kanoria and A. Montanari, *Optimal coding for the deletion channel with small deletion probability*, 2011
D. Donoho, I. Johnstone, A. Maleki and A. Montanari, *Compressed Sensing over $\ell_p$-balls: Minimax Mean Square Error*, submitted, 2010