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

Y. Deshpande and A. Montanari (2015), Sparse PCA via Covariance Thresholding, Journal of Machine Learning Research, accepted


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A. Javanmard and A. Montanari (2013), State evolution for general approximate message passing algorithms, with applications to spatial coupling, Information and Inference 2, 115-144


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


S. Caracciolo, A. Montanari, and A. Pelissetto (1999), Testing the efficiency of different improvement programs, Nuclear Physics B 556, 295

Conference Papers


S. Ioannidis, A. Montanari, Y. Sun (2014) Learning Mixtures of Linear Classifiers, ICML, Beijing


M. Ibrahimi, Y. Kanoria, M. Kraning, A. Montanari (2013), The Set of Solutions of Random XORSAT Formulae, Symposium of Discrete Algorithms (SODA),

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S. Korada, A. Montanari and S. Oh (2011), Gossip PCA, Sigmetrics, San Jose, USA.


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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.

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S. Caracciolo, A. Montanari, and A. Pelissetto (1998), Improved actions for the two-dimensional $\sigma$-model, Nuclear Physics Proceedings Supplement 63, 916

Papers under Review


A. Javanmard and A. Montanari On Online Control of False Discovery Rate, submitted, 2015

D. Donoho and A. Montanari, Variance Breakdown of H"uber $(M)$-Estimators: $n/pm \in (1, \infty)$, submitted, 2015

