

References

- [1] E. Airoldi, D. Blei, S. Fienberg, and E. Xing. Mixed membership stochastic blockmodels. *JMLR*, 9, 2008.
- [2] S. Amari. Natural gradient works efficiently in learning. *Neural Computation*, 10(2):251–276, 1998.
- [3] M. Bastian, S. Heymann, and M. Jacomy. Gephi: An open source software for exploring and manipulating networks, 2009.
- [4] D. M. Blei and M. I. Jordan. Variational methods for the dirichlet process. In *ICML*, 2004.
- [5] M. Bryant and E. B. Sudderth. Truly nonparametric online variational inference for hierarchical dirichlet processes. In *NIPS*, pages 2708–2716, 2012.
- [6] P. Gopalan, D. M. Mimno, S. Gerrish, M. J. Freedman, and D. M. Blei. Scalable inference of overlapping communities. In *NIPS*, pages 2258–2266, 2012.
- [7] T. L. Griffiths and Z. Ghahramani. Infinite latent feature models and the Indian buffet process. Technical Report 2005-001, Gatsby Computational Neuroscience Unit, May 2005.
- [8] M. Hoffman, D. Blei, C. Wang, and J. Paisley. Stochastic variational inference. *arXiv preprint arXiv:1206.7051*, 2012.
- [9] M. D. Hoffman, D. M. Blei, and F. R. Bach. Online learning for latent dirichlet allocation. In *NIPS*, pages 856–864, 2010.
- [10] C. Kemp, J. Tenenbaum, T. Griffiths, T. Yamada, and N. Ueda. Learning systems of concepts with an infinite relational model. In *AAAI*, 2006.
- [11] D. Kim, M. C. Hughes, and E. B. Sudderth. The nonparametric metadata dependent relational model. In *ICML*, 2012.
- [12] A. Lancichinetti and S. Fortunato. Benchmarks for testing community detection algorithms on directed and weighted graphs with overlapping communities. *Phys. Rev. E*, 80(1):016118, July 2009.
- [13] littleisis.org. Littleisis is a free database detailing the connections between powerful people and organizations, June 2009.
- [14] K. Miller, T. Griffiths, and M. Jordan. Nonparametric latent feature models for link prediction. In *NIPS*, 2009.
- [15] M. Morup, M. N. Schmidt, and L. K. Hansen. Infinite multiple membership relational modeling for complex networks. In *Machine Learning for Signal Processing (MLSP), 2011 IEEE International Workshop on*, pages 1–6. IEEE, 2011.
- [16] T. Nepusz, A. Petrczi, L. Ngyessy, and F. Bacs. Fuzzy communities and the concept of bridgeness in complex networks. *Phys Rev E Stat Nonlin Soft Matter Phys*, 77(1 Pt 2):016107, 2008.
- [17] M. Sato. Online model selection based on the variational bayes. *Neural Computation*, 13(7):1649–1681, 2001.
- [18] Y. W. Teh, M. I. Jordan, M. J. Beal, and D. M. Blei. Hierarchical Dirichlet processes. *JASA*, 101(476):1566–1581, Dec. 2006.
- [19] Y. W. Teh, K. Kurihara, and M. Welling. Collapsed variational inference for hdp. In *NIPS*, 2007.
- [20] Y. Wang and G. Wong. Stochastic blockmodels for directed graphs. *JASA*, 82(397):8–19, 1987.