

References

- [1] J. Barbič, A. Safonova, J.-Y. Pan, C. Faloutsos, J.K. Hodgins, and N.S. Pollard. Segmenting motion capture data into distinct behaviors. In *Proc. Graphics Interface*, pages 185–194, 2004.
- [2] M.J. Beal, Z. Ghahramani, and C.E. Rasmussen. The infinite hidden Markov model. In *Advances in Neural Information Processing Systems*, volume 14, pages 577–584, 2002.
- [3] A.C. Courville, N. Daw, G.J. Gordon, and D.S. Touretzky. Model uncertainty in classical conditioning. In *Advances in Neural Information Processing Systems*, volume 16, pages 977–984, 2004.
- [4] E.B. Fox, E.B. Sudderth, M.I. Jordan, and A.S. Willsky. An HDP-HMM for systems with state persistence. In *Proc. International Conference on Machine Learning*, July 2008.
- [5] E.B. Fox, E.B. Sudderth, M.I. Jordan, and A.S. Willsky. Nonparametric Bayesian learning of switching dynamical systems. In *Advances in Neural Information Processing Systems*, volume 21, pages 457–464, 2009.
- [6] A. Frigessi, P. Di Stefano, C.R. Hwang, and S.J. Sheu. Convergence rates of the Gibbs sampler, the Metropolis algorithm and other single-site updating dynamics. *Journal of the Royal Statistical Society, Series B*, pages 205–219, 1993.
- [7] D. Görür, F. Jäkel, and C.E. Rasmussen. A choice model with infinitely many latent features. In *Proc. International Conference on Machine Learning*, June 2006.
- [8] P.J. Green. Reversible jump Markov chain Monte Carlo computation and Bayesian model determination. *Biometrika*, 82(4):711–732, 1995.
- [9] T.L. Griffiths and Z. Ghahramani. Infinite latent feature models and the Indian buffet process. *Gatsby Computational Neuroscience Unit, Technical Report #2005-001*, 2005.
- [10] N.L. Hjort. Nonparametric Bayes estimators based on beta processes in models for life history data. *The Annals of Statistics*, pages 1259–1294, 1990.
- [11] E. Hsu, K. Pulli, and J. Popović. Style translation for human motion. In *SIGGRAPH*, pages 1082–1089, 2005.
- [12] J. F. C. Kingman. Completely random measures. *Pacific Journal of Mathematics*, 21(1):59–78, 1967.
- [13] N. Lawrence. MATLAB motion capture toolbox. <http://www.cs.man.ac.uk/neill/mocap/>.
- [14] J.S. Liu. Peskun’s theorem and a modified discrete-state Gibbs sampler. *Biometrika*, 83(3):681–682, 1996.
- [15] E. Meeds, Z. Ghahramani, R.M. Neal, and S.T. Roweis. Modeling dyadic data with binary latent factors. In *Advances in Neural Information Processing Systems*, volume 19, pages 977–984, 2007.
- [16] K.P. Murphy. Hidden Markov model (HMM) toolbox for MATLAB. <http://www.cs.ubc.ca/murphyk/Software/HMM/hmm.html>.
- [17] V. Pavlović, J.M. Rehg, T.J. Cham, and K.P. Murphy. A dynamic Bayesian network approach to figure tracking using learned dynamic models. In *Proc. International Conference on Computer Vision*, September 1999.
- [18] V. Pavlović, J.M. Rehg, and J. MacCormick. Learning switching linear models of human motion. In *Advances in Neural Information Processing Systems*, volume 13, pages 981–987, 2001.
- [19] L.R. Rabiner. A tutorial on hidden Markov models and selected applications in speech recognition. *Proceedings of the IEEE*, 77(2):257–286, 1989.
- [20] G.W. Taylor, G.E. Hinton, and S.T. Roweis. Modeling human motion using binary latent variables. In *Advances in Neural Information Processing Systems*, volume 19, pages 1345–1352, 2007.
- [21] Y.W. Teh, M.I. Jordan, M.J. Beal, and D.M. Blei. Hierarchical Dirichlet processes. *Journal of the American Statistical Association*, 101(476):1566–1581, 2006.
- [22] R. Thibaux and M.I. Jordan. Hierarchical beta processes and the Indian buffet process. In *Proc. International Conference on Artificial Intelligence and Statistics*, volume 11, 2007.
- [23] Carnegie Mellon University. Graphics lab motion capture database. <http://mocap.cs.cmu.edu/>.
- [24] J. Van Gael, Y.W. Teh, and Z. Ghahramani. The infinite factorial hidden Markov model. In *Advances in Neural Information Processing Systems*, volume 21, pages 1697–1704, 2009.
- [25] J.M. Wang, D.J. Fleet, and A. Hertzmann. Gaussian process dynamical models for human motion. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 30(2):283–298, 2008.
- [26] M. West and J. Harrison. *Bayesian Forecasting and Dynamic Models*. Springer, 1997.
- [27] F. Wood, T. L. Griffiths, and Z. Ghahramani. A non-parametric Bayesian method for inferring hidden causes. In *Proc. Conference on Uncertainty in Artificial Intelligence*, volume 22, 2006.