

[International Conference]

[39][SNHMHAM:KDD2018] Issei Sato, Yukihiro Nomura, Shouhei Hanaoka, Soichiro Miki, Naoto Hayashi, Osamu Abe, Yoshitaka Masutani. Managing Computer-Assisted Detection System Based on Transfer Learning with Negative Transfer Inhibition. In Proceedings of 24th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD2018), pp.xxx-xxx, 2018.

[38][DLSS:UAI2018] Ding, H., Lee, Y., Sato, I., Sugiyama, M. Variational inference for Gaussian process with panel count data. In Proceedings of Conference on Uncertainty in Artificial Intelligence (UAI2018), pp.xxx-xxx, 2018.

[37][HNSS:ICML2018] Hu, W., Niu, G., Sato, I., Sugiyama, M. Does distributionally robust supervised learning give robust classifiers? In Proceedings of 35th International Conference on Machine Learning (ICML2018), Proceedings of Machine Learning Research, vol.xxx, pp.xxx-xxx, 2018.

[36][ISS:ICML2018] Imamura, H., Sato, I., Sugiyama, M. Analysis of minimax error rate for crowdsourcing and its application to worker clustering model. In Proceedings of 35th International Conference on Machine Learning (ICML2018), Proceedings of Machine Learning Research, vol.xxx, pp.xxx-xxx, 2018.

[35][MSS:ISC2018] Takashi Miyazaki, Issei Sato, Nobuyuki Shimizu. Bayesian Optimization of HPC Systems for Energy Efficiency. ISC 2018: 44-62

[34][FSS:AISTATS2018] Futami, F., Sato, I., Sugiyama, M. Variational inference based on robust divergences. In Proceedings of 21st International Conference on Artificial Intelligence and Statistics (AISTATS2018), Proceedings of Machine Learning Research, vol.84, pp.813-822,2018.

[33][DKSS:AISTATS2018] Ding, H., Khan, M. E., Sato, I., Sugiyama, M. Bayesian nonparametric Poisson-process allocation for time-sequence modeling. In Proceedings of 21st International Conference on Artificial Intelligence and Statistics (AISTATS2018), Proceedings of Machine Learning Research, vol.84, pp.1108-1116, 2018.

[32][FSS:NIPS2017] Futami, F., Sato, I., Sugiyama, M. Expectation propagation for t-

exponential family using q -algebra. *Advances in Neural Information Processing Systems* 30, pp.2242-2251, 2017.

[31][OSKA:NIPS2017] Iku Ohama, Issei Sato, Takuya Kida, Hiroki Arimura. On the Model Shrinkage Effect of Gamma Process Edge Partition Models. *Advances in Neural Information Processing Systems* 30, pp. 396-404, 2017.

[30][KSSI:SIGGRAPH2017] Yuki Koyama, Issei Sato, Daisuke Sakamoto, Takeo Igarashi. Sequential line search for efficient visual design optimization by crowds. *ACM Trans. Graph.* 36(4): 48:1-48:11 (2017), 2017.

[29][SS:ICML2017] Tokui, S, Sato I. Evaluating the Variance of Likelihood-Ratio Gradient Estimators. In *Proceedings of the Thirty-fourth International Conference on Machine Learning (ICML2017)*, pp.3414--3423, 2017.

[28][MASN:NIPS2016] Kentaro Minami, Hitomi Arai, Issei Sato, Hiroshi Nakagawa. Differential Privacy without Sensitivity. *Annual Conference on Neural Information Processing Systems (NIPS2014)*. 2016.

[27][ISNKN:AAAI2016] Katsuhiko Ishiguro, Issei Sato, Masahiro Nakano, Akisato Kimura, Naonori Ueda. Infinite plaid models for infinite bi-clustering. *The 30th AAAI Conference on Artificial Intelligence (AAAI)*, pp.1701-1708. 2016.

[26][SN:SIGKDD2015] Issei Sato, Hiroshi Nakagawa. Stochastic Divergence Minimization for Online Collapsed Variational Bayes Zero Inference of Latent Dirichlet Allocation. *The 19th ACM International Conference on Knowledge Discovery and Data Mining (SIG-KDD 2015)*. pp.1035-1044. 2015.

[25][YSN:SIGMOD2015] Bing Yang, Issei Sato, Hiroshi Nakagawa. Bayesian Differential Privacy on Correlated Data. *The 36th International Conference on Management of Data (SIGMOD2015)*. 2015.

[24][TSH:PAKDD2015]Seiya Tokui, Issei Sato, Hiroshi Nakagawa: Locally Optimized Hashing for Nearest Neighbor Search. *The 19th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD2015)*, 2015.

[23][MSN:AAAI2015] Tengfei Ma, Issei Sato, Hiroshi Nakagawa. The Hybrid

Nested/Hierarchical Dirichlet Process and Its Application to Topic Modeling with Word Differentiation. The 29th AAAI Conference on Artificial Intelligence (AAAI2015). 2015.

[22][NSSWK:NIPS2014] Shinichi Nakajima, Issei Sato, Masashi Sugiyama, Kazuho Watanabe, Hiroko Kobayashi. Analysis of Variational Bayesian Latent Dirichlet Allocation: Weaker Sparsity Than MAP. Annual Conference on Neural Information Processing Systems (NIPS2014). pp1224-1232. 2014.

[21][SN:ICML2014] Issei Sato, Hiroshi Nakagawa. Approximation Analysis of Stochastic Gradient Langevin Dynamics by using Fokker-Planck Equation and Ito Process. The 31st International Conference on Machine Learning (ICML 2014). pp.982-990. 2014.

[20][SKN:ICML2014] Issei Sato, Hisashi Kashima, Hiroshi Nakagawa. Latent Confusion Analysis by Normalized Gamma Construction. The 31st International Conference on Machine Learning (ICML 2014). pp. 1116-1124. 2014.

[19][EMOSN:EMNLP2014] Yo Ehara, Yusuke Miyao, Hidekazu Oiwa, Issei Sato, Hiroshi Nakagawa. Formalizing Word Sampling for Vocabulary Prediction as Graph-based Active Learning. The 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP 2014). pp. 1374-1384. 2014.

[18][SKN:SIGKDD2012] Issei Sato, Ken-ich Kurihara, Hiroshi Nakagawa. Practical Collapsed Variational Bayes Inference for Hierarchical Dirichlet Process. The 16th ACM International Conference on Knowledge Discovery and Data Mining (SIGKDD 2012). pp.105-113. 2012.

[17][SN:ICML2012] Issei Sato, Hiroshi Nakagawa. Rethinking Collapsed Variational Bayes Inference for LDA. The 29th International Conference on Machine Learning (ICML 2012) pp.999-1006, 2012.

[16][TSN:ACL2012] Shingo Takamatsu, Issei Sato, Hiroshi Nakagawa. Reducing Wrong Labels in Distant Supervision for Relation Extraction. The 50th Annual Meeting of the Association for Computational Linguistics (ACL 2012). pp.721-729. 2012.

[15][ESON:COLING2012]Yo Ehara, Issei Sato, Hidekazu Oiwa, Hiroshi Nakagawa. Mining words in the minds of second language learners: learner-specific word difficulty.

The 24th International Conference on Computational Linguistics (COLING-2012). pp. 799-814.2012.

[14][YSN:PAKDD2012] Bing Yang, Issei Sato, Hiroshi Nakagawa. Privacy-Preserving EM Algorithm for Clustering on Social Network. The 16th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD2012). 2012 (accepted as short paper. 88/241=36.5%).

[13][YSN:ICDM2011] Bing Yang, Issei Sato, Hiroshi Nakagawa. Secure Clustering in Private Networks. The 11th IEEE International Conference on Data Mining (ICDM 2011). pp.894-903. 2011.

[12][TSN:PAKDD2011] Shingo Takamatsu, Issei Sato, Hiroshi Nakagawa. Probabilistic Matrix Factorization Leveraging Contexts for Unsupervised Relation Extraction. The 15th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD2011). Part I. pp.87-99. 2011.

[11][SKN:NIPS2010] Issei Sato, Ken-ich Kurihara, Hiroshi Nakagawa. Deterministic Single-Pass Algorithm for LDA. Neural Information Processing Systems Conference (NIPS 2010). pp. 2074-2082. 2010.

[10][SN:SIGKDD2010] Issei Sato, Hiroshi Nakagawa. Topic Models with Power-Law Using Pitman-Yor Process. The 16 th ACM International Conference on Knowledge Discovery and Data Mining (SIGKDD2010). pp.673-682. 2010.

[9][YSN:SIGKDD2010] Bin Yang, Hiroshi Nakagawa, Issei Sato, Jun Sakuma. Collusion-Resistant Privacy-Preserving Data Mining. The 16th ACM International Conference on Knowledge Discovery and Data Mining,(SIGKDD2010) pp.483-492. 2010.

[8][YSN:SIGIR2010] Minoru Yoshida, Masaki Ikeda, Shingo Ono, Issei Sato, Hiroshi Nakagawa. Person Name Disambiguation by Bootstrapping. The 33rd ACM International Conference on Information Retrieval (SIGIR 2010). pp.10-19. 2010.

[7][YSN:PAKDD2010] Minoru Yoshida, Issei Sato, Hiroshi Nakagawa. Mining Numbers in Text Using Suffix Arrays and Clustering Based on Dirichlet Process Mixture Models. The 14th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2010). pp.230-237. 2010.

[6][SKTMN:UAI2009] Issei Sato, Kenichi Kurihara, Shu Tanaka, Seiji Miyashita and Hiroshi Nakagawa . Quantum Annealing for Variational Bayes Inference. The 25th Conference on Uncertainty in Artificial Intelligence (UAI2009).2009.

[5][SYN:SIGKDD2008] Issei Sato, Minoru Yoshida, Hiroshi Nakagawa. Knowledge Discovery of Semantic Relationships between Words Using Nonparametric Bayesian Graph Model. The 14th ACM International Conference on Knowledge Discovery and Data Mining (SIGKDD2008). pp.587-595. 2008.

[4][OSYN:PAKDD2008] Shingo Ono, Issei Sato, Minoru Yoshida, Hiroshi Nakagawa. Person Name Disambiguation in Web Pages using Social Network, Compound Words and Latent Topics, The 12th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD2008). pp.260-271. 2008.

[3][SN:SIGKDD2007] Issei Sato, Hiroshi Nakagawa. Knowledge Discovery of Multiple-topic Document Using Parametric Mixture Model with Dirichlet Prior. The 13th ACM International Conference on Knowledge Discovery and Data Mining (SIGKDD2007). pp.590-598. 2007.

[2][SN:EMNLP-CONLL2007] Issei Sato, Hiroshi Nakagawa. Bayesian Document Generative Model with Explicit Multiple Topics. The 2007 Joint Meeting of the Conference on Empirical Methods on Natural Language Processing (EMNLP) and the Conference on Natural Language Learning (CoNLL) 2007.

[1][SN:PAKDD2007] Issei Sato, Hiroshi Nakagawa. Semi-structure Mining Method for Text Mining with a Chunk-based Dependency Structure. The 11th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD2007), 2007.