Publications

# Book Chapter

* Jeremy Kubica, Sameer Singh, Daria Sorokina, **Parallel Large-scale Feature Selection.** *Scaling Up Machine Learning, Cambridge University Press,* 2011 ([link](http://additivegroves.net/papers/chapter-featureeval.pdf))

# Patents

* Sameer Singh, Thore Graepel, Lucas J. Bordeaux, Andrew D. Gordon, **Relational database management.** *US Patent Number 0188928,* 2014 ([link](https://docs.google.com/viewer?url=patentimages.storage.googleapis.com/pdfs/US20140188928.pdf))
* Sameer Singh, E. S. Larsen, Jeremy Kubica, Andrew W. Moore, **Feature selection for large scale models.** *US Patent Number 8190537,* 2008 ([link](https://docs.google.com/viewer?url=books.google.com/patents/US8190537.pdf))

# Journal

* Yanbing Bai, Chang Gao, Sameer Singh, Magaly Koch, Bruno Adriano, Erick Mas, Shunichi Koshimura, **A Framework of Rapid Regional Tsunami Damage Recognition from Post-event TerraSAR-X Imagery Using Deep Neural Networks.** *IEEE Geoscience and Remote Sensing Letters,* 2017 ([link](http://ieeexplore.ieee.org/document/8126255/))
* Xiao Ling, Sameer Singh, Dan Weld, **Design Challenges for Entity Linking.** *Transactions of the Association for Computational Linguistics (TACL),* 2015 ([link](http://sameersingh.org/files/papers/entitylinking-tacl15.pdf))
* S.R. Schach, T.O.S. Adeshiyan, D. Balasubramanian, G. Madl, E.P. Osses, Sameer Singh, K. Suwanmongkol, M. Xie, D.G. Feitelson, **Common Coupling and Pointer Variables, with Application to a Linux Case Study.** *Software Quality Journal (SQJ),* 2007 ([link](http://sameersingh.org/files/papers/common-sqj07.pdf))
* D.G. Feitelson, T.O.S. Adeshiyan, D. Balasubramanian, Y. Etsion, G. Madl, E.P. Osses, Sameer Singh, K. Suwanmongkol, M. Xie, S.R. Schach, **Fine-Grain Analysis of Common Coupling and its Application to a Linux Case Study.** *Journal of Systems and Software (JSS),* 2007 ([link](http://sameersingh.org/files/papers/common-jss07.pdf))

# Peer-Reviewed Conference

* Marco Tulio Ribeiro, Sameer Singh, Carlos Guestrin, **Semantically Equivalent Adversarial Rules for Debugging NLP models.** *Association for Computational Linguistics (ACL),* 2018 ([link](http://sameersingh.org/files/papers/sears-acl18.pdf))
* Forough Arabshahi, Sameer Singh, Animashree Anandkumar, **Combining Symbolic Expressions and Black-box Function Evaluations for Training Neural Programs.** *International Conference on Learning Representations (ICLR),* 2018 ([link](http://sameersingh.org/files/papers/funeval-iclr18.pdf))
* Zhengli Zhao, Dheeru Dua, Sameer Singh, **Generating Natural Adversarial Examples.** *International Conference on Learning Representations (ICLR),* 2018 ([link](http://sameersingh.org/files/paper/natadv-iclr18.pdf))
* Marco Tulio Ribeiro, Sameer Singh, Carlos Guestrin, **Anchors: High-Precision Model-Agnostic Explanations.** *AAAI Conference on Artificial Intelligence (AAAI),* 2018 ([link](http://sameersingh.org/files/papers/anchors-aaai18.pdf))
* Nitish Gupta, Sameer Singh, Dan Roth, **Entity Linking via Joint Encoding of Types, Descriptions, and Context.** *Empirical Methods in Natural Language Processing (EMNLP),* 2017 ([link](http://cogcomp.org/papers/GuptaSiRo17.pdf))
* Parisa Kordjamshidi, Daniel Khashabi, Christos Christodoulopoulos, Bhargav Mangipudi, Sameer Singh, Dan Roth, **Better call Saul: Flexible Programming for Learning and Inference in NLP.** *International Conference on Computational Linguistics (COLING),* 2016 ([link](http://aclanthology.coli.uni-saarland.de/pdf/C/C16/C16-1285.pdf))
* Hannah Rashkin, Sameer Singh, Yejin Choi, **Connotation Frames: A Data-Driven Investigation.** *Association for Computational Linguistics (ACL),* 2016 ([link](http://sameersingh.org/files/papers/connot-acl16.pdf))
* Marco Tulio Ribeiro, Sameer Singh, Carlos Guestrin, **"Why Should I Trust You?": Explaining the Predictions of Any Classifier.** *Knowledge Discovery and Data Mining (KDD),* 2016 ([link](http://sameersingh.org/files/papers/lime-kdd16.pdf))
* Tim Rocktaschel, Sameer Singh, Sebastian Riedel, **Injecting Logical Background Knowledge into Embeddings for Relation Extraction.** *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL),* 2015 ([link](http://sameersingh.org/files/papers/logicmf-naacl15.pdf))
* Tianqi Chen, Sameer Singh, Ben Taskar, Carlos Guestrin, **Efficient Second-Order Gradient Boosting for Conditional Random Fields.** *International Conference on Artificial Intelligence and Statistics (AISTATS),* 2015 ([link](http://sameersingh.org/files/papers/gbcrf-aistats15.pdf))
* Ignacio Cano, Sameer Singh, Carlos Guestrin, **Distributed Non-Parametric Representations for Vital Filtering: {UW at TREC KBA} 2014.** *Text REtrieval Conference (TREC): Knowledge-Base Acceleration (KBA) Track,* 2014 ([link](http://sameersingh.org/files/papers/stream-kba14.pdf))
* Fabian M. Suchanek, Sameer Singh, Sebastian Riedel, Partha P. Talukdar, **AKBC 2013: Third Workshop on Automated Knowledge Base Construction.** *ACM Conference of Information and Knowledge Management (CIKM),* 2013 ([link](http://sameersingh.org/files/papers/akbc13.pdf))
* Sameer Singh, Thore Graepel, **Automated Probabilistic Modeling for Relational Data.** *ACM Conference of Information and Knowledge Management (CIKM),* 2013 ([link](http://research.microsoft.com/pubs/200220/cikm1335-singh-preprint.pdf))
* Sameer Singh, Limin Yao, David Belanger, Ari Kobren, Sam Anzaroot, Michael Wick, Alexandre Passos, Harshal Pandya, Jinho Choi, Brian Martin, Andrew McCallum, **Universal Schema for Slot Filling and Cold Start: UMass IESL at TACKBP 2013.** *Text Analysis Conference on Knowledge Base Population (TAC KBP),* 2013 ([link](http://sameersingh.org/files/papers/umass-tackbp13.pdf))
* Jiaping Zheng, Luke Vilnis, Sameer Singh, Jinho Choi, Andrew McCallum, **Dynamic Knowledge-Base Alignment for Coreference Resolution.** *Conference on Computational Natural Language Learning (CoNLL),* 2013 ([link](http://sameersingh.org/files/papers/dynamic-conll13.pdf))
* Sameer Singh, Michael Wick, Andrew McCallum, **Monte Carlo MCMC: Efficient Inference by Approximate Sampling.** *Empirical Methods in Natural Language Processing (EMNLP),* 2012 ([link](http://sameersingh.org/files/papers/mcmcmc-emnlp12.pdf))
* Michael Wick, Sameer Singh, Andrew McCallum, **A Discriminative Hierarchical Model for Fast Coreference at Large Scale.** *Association for Computational Linguistics (ACL),* 2012 ([link](http://sameersingh.org/files/papers/hierar-coref-acl12.pdf))
* Sameer Singh, Amarnag Subramanya, Fernando Pereira, Andrew McCallum, **Large-Scale Cross-Document Coreference Using Distributed Inference and Hierarchical Models.** *Association for Computational Linguistics (ACL),* 2011 ([link](http://sameersingh.org/files/papers/largescale-acl11.pdf))
* Sameer Singh, Limin Yao, Sebastian Riedel, Andrew McCallum, **Constraint-Driven Rank-Based Learning for Information Extraction.** *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL),* 2010 ([link](http://sameersingh.org/files/papers/constraint-naacl10.pdf))
* Sameer Singh, Dustin Hillard, Chris Leggetter, **Minimally-Supervised Extraction of Entities from Text Advertisements.** *Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL),* 2010 ([link](http://sameersingh.org/files/papers/minimally-naacl10.pdf))
* Michael Wick, Khashyar Rohanimanesh, Sameer Singh, Andrew McCallum, **Training Factor Graphs with Reinforcement Learning for Efficient MAP Inference.** *Neural Information Processing Systems (NIPS),* 2009 ([link](http://sameersingh.org/files/papers/rl-nips09.pdf))
* Andrew McCallum, Karl Schultz, Sameer Singh, **FACTORIE: Probabilistic Programming via Imperatively Defined Factor Graphs.** *Neural Information Processing Systems (NIPS),* 2009 ([link](http://sameersingh.org/files/papers/factorie-nips09.pdf))
* Sameer Singh, Karl Schultz, Andrew McCallum, **Bi-directional Joint Inference for Entity Resolution and Segmentation using Imperatively-Defined Factor Graphs.** *Machine Learning and Knowledge Discovery in Databases (Lecture Notes in Computer Science) and European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD),* 2009 ([link](http://sameersingh.org/files/papers/bidirectional-ecml09.pdf))
* Sameer Singh, Jeremy Kubica, Scott E. Larsen, Daria Sorokina, **Parallel Large Scale Feature Selection for Logistic Regression.** *SIAM International Conference on Data Mining (SDM),* 2009 ([link](http://sameersingh.org/files/papers/parallel-sdm09.pdf))
* Sameer Singh, Julie A. Adams, **Transfer of Learning for Complex Domains: A Demonstration Using Multiple Robots.** *International Conference on Robotics and Automation (ICRA),* 2006 ([link](http://sameersingh.org/files/papers/transfer-icra06.pdf))