Research Publications - Data Mining Research Group at CS, UIUC

2018

1. Jingbo Shang, Jialu Liu, Meng Jiang, Xiang Ren, Clare R Voss, Jiawei Han, "Automated Phrase Mining from Massive Text Corpora", IEEE Transactions on Knowledge and Data Engineering, 30(10):1825-1837, 2018
2. Xuan Wang, Yu Zhang, Qi Li, Cathy Wu, and Jiawei Han, "PENER: Pattern-enhanced Nested Named Entity Recognition in Biomedical Literature", Proc. 2018 Int. Conf. on Bioinformatics and Biomedicine (BIBM'18), Madrid, Spain, Dec. 2018
3. Qi Li, Xuan Wang, Yu Zhang, Fei Ling, Cathy Wu, and Jiawei Han, "Pattern Discovery for Wide-Window Open Information Extraction in Biomedical Literature", Proc. 2018 IEEE Int. Conf. on Bioinformatics and Biomedicine (BIBM'18), Madrid, Spain, Dec. 2018
4. Shi Zhi, Fan Yang, Zheyi Zhu, Qi Li, Zhaoran Wang, and Jiawei Han, "Dynamic Truth Discovery on Numerical Data", in Proc of 2018 IEEE Int. Conf. on Data Mining (ICDM'18), Singapore, Nov. 2018
5. Carl Yang, Yichen Feng, Pan Li, Yu Shi, and Jiawei Han, "Meta-Graph Based HIN Spectral Embedding: Methods, Analyses, and Insights", in Proc of 2018 IEEE Int. Conf. on Data Mining (ICDM'18), Singapore, Nov. 2018
6. Fangbo Tao, Chao Zhang, Xiusi Chen, Meng Jiang, Tim Hanratty, Lance Kaplan, and Jiawei Han, "Doc2Cube: Automated Document Allocation to Text Cube via Dimension-Aware Joint Embedding", in Proc of 2018 IEEE Int. Conf. on Data Mining (ICDM'18), Singapore, Nov. 2018
7. Doris Xin, Ahmed El-Kishky, De Liao, Brandon Norick, and Jiawei Han, "Active Learning on Heterogeneous Information Networks: A Multi-armed Bandit Approach", in Proc of 2018 IEEE Int. Conf. on Data Mining (ICDM'18), Singapore, Nov. 2018
8. Xuan Wang, Yu Zhang, Xiang Ren, Yuhao Zhang, Marinka Zitnik, Jingbo Shang, Curtis Langlotz, and Jiawei Han, "Cross-type Biomedical Named Entity Recognition with Deep Multi-Task Learning", Bioinformatics (accepted), Oct. 2018
9. Jingbo Shang, Liyuan Liu, Xiaotao Gu, Xiang Ren, Teng Ren and Jiawei Han, "Learning Named Entity Tagger using Domain-Specific Dictionary", in Proc of 2018 Conf. on Empirical Methods in Natural Language Processing (EMNLP'18), Brussels, Belgium, Oct. 2018
10. Liyuan Liu, Xiang Ren, Jingbo Shang, Xiaotao Gu, Jian Peng and Jiawei Han, "Efficient Contextualized Representation: Language Model Pruning for Sequence Labeling", in Proc of 2018 Conf. on Empirical Methods in Natural Language Processing (EMNLP'18), Brussels, Belgium, Oct. 2018
11. Quan Yuan, Xiang Ren, Wenzhi He, Chao Zhang, Xinhe Geng, Lili Huang, Heng Ji, Chinh-Yew Lin and Jiawei Han, "Open-Schema Event Profiling for Corpora", Proc. of 2018 ACM Int. Conf. on Information and Knowledge Management (CIKM'18), Turin, Italy, Oct. 2018
12. Yu Meng, Jaiming Shen, Chao Zhang and Jiawei Han, "Weakly-Supervised Neural Text Classification", in Proc of 2018 ACM Int. Conf. on Information and Knowledge Management (CIKM'18), Turin, Italy, Oct. 2018
13. Jingbo Shang, Jaiming Shen, Tianhang Sun, Xingbang Liu, Anja Gruenheid, Filip Korn, Adam Lelkes, Cong Yu and Jiawei Han, "Investigating Rumor News Using Agreement-Aware Search", in Proc of 2018 ACM Int. Conf. on Information and Knowledge Management (CIKM'18), Turin, Italy, Oct. 2018
14. Carl Yang, Mengxiang Liu, Frank He, Xikun Zhang, Jian Peng, and Jiawei Han, "Similarity Modeling on Heterogeneous Networks via Automatic Path Discovery", in Proc. of 2018 European Conf. on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECMLPKDD'18), Dublin, Ireland, Sept. 2018
15. Carl Yang, Mengxiang Liu, Vincent W. Zheng and Jiawei Han, "Node, Motif and Subgraph: Leveraging Network Functional Blocks Towards Structural Convolution", in Proc. of 2018 IEEE/ACM Int. Conf. on Social Networks Analysis and Mining (ASONAM'18), Barcelona, Spain, Aug. 2018
16. Xuan Wang, Yu Zhang, Qi Li, Yinyin Chen and Jiawei Han, "Open Information Extraction with Meta-pattern Discovery in Biomedical Literature", in Proc. of 2018 ACM Int. Conf. on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB'18), Washington, DC, August 2018
17. Jingbo Shang, Chao Zhang, Jaiming Shen, Jiawei Han, "Towards Multidimensional Analysis of Text Corpora", Proc. of 2018 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'18), (Conference Tutorial), London, UK, Aug. 2018
18. Jingbo Shang, Qi Zhu, Jaiming Shen, Xuan Wang, Xiang Ren, Tianhang Sun, Xingbang Liu, Lance Kaplan, Timothy Hanratty and Jiawei Han, "AutoNet: Automated Network Construction and Exploration System from Domain-Specific Corpora", in Proc. of 2018 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'18), (demo paper), London, UK, August 2018
19. Jaiming Shen, Jinfeng Xiao, Yu Zhang, Carl Yang, Jingbo Shang, Jinda Han, Saurabh Sinha, Peipei Ping, Richard Weinshilboum, Zhiyong Lu and Jiawei Han, "SetSearch+: Entity-Set-Aware Search and Mining for Scientific Literature", in Proc. of 2018 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'18), (demo paper), London, UK, August 2018
20. Hanwen Zha, Jaiming Shen, Keqian Li, Warren Greiff, Michelle Vanni, Jiawei Han and Xileng Yan, "FTS: Faceted Taxonomy Construction and Search for Scientific Publications", in Proc. of 2018 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'18), (demo paper), London, UK, August 2018
21. Carl Yang, Xiaolin Shi, Jie Luo and Jiawei Han, "I Know You’ll Be Back: Interpretative New User Clustering and Churn Prediction on a Mobile Social Application", in Proc. of 2018 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'18), London, UK, August 2018
22. Chao Zhang, Fangbo Tao, Xiusi Chen, Jaiming Shen, Meng Jiang, Brian Sadler, Michelle Vanni and Jiawei Han, "TaxoGen: Constructing Topical Concept Taxonomy by Adaptive Term Embedding and Clustering", in Proc of 2018 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'18), London, UK, August 2018
23. Qi Li, Meng Jiang, Xikun Zhang, Meng Gu, Timothy Hanratty, Jing Gao and Jiawei Han, "TruePie: Discovering Reliable Patterns in Pattern-Based Information Extraction", in Proc of 2018 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'18), London, UK, August 2018
24. Jaiming Shen, Zeqiu Wu, Dongming Lei, Chao Zhang, Xiang Ren, Michelle T. Vanni, Brian M. Sadler and Jiawei Han, "HiExpan: Task-Guided Taxonomy Construction by Hierarchical Tree Expansion", in Proc of 2018 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'18), London, UK, August 2018
25. Yu Shi, Qi Zhu, Fang Guo, Chao Zhang and Jiawei Han, “Easing Embedding Learning by Comprehensive Transcription of Heterogeneous Information Networks”, in Proc. of 2018 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD’18), London, UK, August 2018

26. Yuchen Li, Zhengzhi Lou, Yu Shi and Jiawei Han, “Temporal Motifs in Heterogeneous Information Networks”, in Proc. of 2018 Int. Workshop on Mining and Learning with Graphs (MLG’18), co-located with KDD’18, London, UK, August 2018

27. Xiang Ren and Jiawei Han, Mining Structures of Factual Knowledge from Text: An Effort-Light Approach, Morgan & Claypool Publishers, 2018. (Ren’s thesis: 2018 ACM SIGKDD Dissertation Award)

28. Yuning Mao, Xiang Ren, Jiaming Shen, Xiaotao Gu and Jiawei Han, “End-to-End Reinforcement Learning for Automatic Taxonomy Induction", in Proc. of 2018 Annual Meeting of the Association for Computational Linguistics (ACL’18), Melbourne, Australia, July 2018

29. Jiaming Shen, Jinfeng Xiao, Xinwei He, Jingbo Shang, Saurabh Sinha and Jiawei Han, “Entity Set Search of Scientific Literature: An Unsupervised Ranking Approach”, in Proc. of 2018 Int. ACM SIGIR Conf. on Research and Development in Information Retrieval (SIGIR’18), Ann Arbor, MI, July 2018

30. Ahmed El-Kishky, Frank Xu, Aston Zhang, Stephen Macke and Jiawei Han, “Entropy-Based Subword Mining for Word Embeddings”, in Proc. of the 2nd Workshop on Subword and Character Level Models in NLP (SCLeM’18) at NAACL 2018, New Orleans, LA, June 2018

31. Yu Shi, Huan Gui, Qi Zhu, Lance Kaplan, Jiawei Han, “ASpEm: Embedding Learning by Aspects in Heterogeneous Information Networks,” in Proc. of 2018 ACM Int. Conf. on Information and Knowledge Management (CIKM’18), San Diego, CA, May 2018

32. Meng Qu, Xiang Ren, Yu Zhang, and Jiawei Han, “Weakly-supervised Relation Extraction by Pattern-enhanced Embedding Learning”, in Proc. of 2018 Int. Conf. on World-Wide Web (WWW’18), Lyon, France, Apr. 2018

33. Qi Zhu, Xiang Ren, Jingbo Shang, Yu Zhang, Frank F. Xu and Jiawei Han, “Open Information Extraction with Global Structure Constraints”, (poster paper), in Proc. of 2018 Int. Conf. on World-Wide Web (WWW’18), Lyon, France, Apr. 2018 (received WWW’18 best poster award honorable mentioning)

34. Carl Yang, Chao Zhang, Jiawei Han, Xuwen Chen, Jieping Ye, “Did You Enjoy the Ride: Understanding Passenger Experience via Network Embedding”, in Proc. of 2018, IEEE International Conference on Data Engineering, Paris, France, April 2018

35. Liyong Chen, Jingbo Shang, Frank Xu, Xiang Ren, Huan Gui, Jian Peng and Jiawei Han, “Empeer Sequence Labeling with Task-Aware Neural Language Model”, in Proc. of 2018 AAAI Conf. on Artificial Intelligence (AAAI’18), New Orleans, LA, Feb. 2018

36. Chao Zhang, Mengxiong Liu, Zhengchao Liu, Carl Yang, Luming Zhang, Jiawei Han, “Spatiotemporal Activity Modeling Under Data Scarcity: A Graph-Regularized Cross-Modal Embedding Approach”, in Proc. of 2018 AAAI Conf. on Artificial Intelligence (AAAI’18), New Orleans, LA, Feb. 2018

37. Wenzheng Zhu, Chao Zhang, Shuchao Yao, Xiaobin Gao, Jiawei Han, “A Spherical Hidden Markov Model for Semantics-Rich Human Mobility Modeling”, in Proc. of 2018 AAAI Conf. on Artificial Intelligence (AAAI’18), New Orleans, LA, Feb. 2018

38. Zeqiu Wu, Xiang Ren, Frank F. Xu, Ji Li and Jiawei Han, “Indirect Supervision for Relation Extraction using Question-Answer Pairs”, in Proc. of 2018 ACM Int. Conf. on Web Search and Data Mining (WSDM’18), Los Angeles, CA, Feb. 2018

39. Meng Qu, Jian Tang, and Jiawei Han, “Curriculum Learning for Heterogeneous Star Network Embedding via Deep Reinforcement Learning”, in Proc. of 2018 ACM Int. Conf. on Web Search and Data Mining (WSDM’18), Los Angeles, CA, Feb. 2018

40. Jiawei Han, “On the Power of Massive Text Data”, (keynote speech), in Proc. of 2018 ACM Int. Conf. on Web Search and Data Mining (WSDM’18), Los Angeles, CA, Feb. 2018

41. Chenguang Wang, Yangqiu Song, Haoan Li, Ming Zhang, and Jiawei Han, “Unsupervised Meta-path Selection for Text Similarity Measure based on Heterogeneous Information Networks”, Data Mining and Knowledge Discovery (DMKD), to appear 2018

42. Jingbo Shang, Jiaju Li, Meng Jiang, Xiang Ren, Clare R Voss, Jiawei Han, “Automated Phrase Mining from Massive Text Corpora”, accepted by IEEE Transactions on Knowledge and Data Engineering, Feb., 2018

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1. Jingbo Shang, Meng Jiang, Wenzhu Tong, Jinfeng Xiao, Jian Peng, Jiawei Han. “DPPred: An Effective Prediction Framework with Concise Discriminative Patterns”, accepted by IEEE Transactions on Knowledge and Data Engineering, Sept. 2017

2. Adit Krishnan, Aravind Sankar, Shi Zhi, Jiawei Han, “Unsupervised Concept Categorization and Extraction from Scientific Document Titles”, in Proc. of 2017 ACM Int. Conf. on Information and Knowledge Management (CIKM’17), Singapore, Nov. 2017

3. Meng Qu, Jian Tang, Jingbo Shang, Xiang Ren, Ming Zhang, Jiawei Han. “An Attention-based Collaboration Framework for Multi-View Network Representation Learning”, in Proc. of 2017 ACM Int. Conf. on Information and Knowledge Management (CIKM’17), Singapore, Nov. 2017

4. Chenguang Wang, Yangqiu Song, Haoan Li, Yizhou Sun, Ming Zhang, Jiawei Han. “Second-Order Heterogeneous Information Network Similarity for Text”, in Proc. of 2017 ACM Int. Conf. on Information and Knowledge Management (CIKM’17), Singapore, Nov. 2017

5. Quan Yuan, Jingbo Shang, Xin Cao, Chao Zhang, Xinhe Geng, Jiawei Han, “Detecting Multiple Periods and Periodic Patterns in Event Time Sequences”, in Proc. of 2017 ACM Int. Conf. on Information and Knowledge Management (CIKM’17), Singapore, Nov. 2017

6. Shi Zhi, Yuqian Sun, Jiaju Li, Chao Zhang and Jiawei Han, “ClaimVerif: A Real-time and Claim Verification System Using the Web and Fact Databases” (system demo), in Proc. of 2017 ACM Int. Conf. on Information and Knowledge Management (CIKM’17), Singapore, Nov. 2017

7. Mengxiong Liu, Zhengchao Liu, Chao Zhang, Kegang Zhang, Quan Yuan, Tim Hanratty and Jiawei Han, “Urbanity: A System for Interactive Exploration of Urban Dynamics from Streaming Human Sensing Data” (system demo), in Proc. of 2017 ACM Int. Conf. on Information and Knowledge Management (CIKM’17), Singapore, Nov. 2017

8. Huan Gui, Jiaju Liu, Fangbo Tao, Meng Jiang, Brandon Norick, Lance Kaplan and Jiawei Han, “Embedding Learning with Events in Heterogeneous Information Networks”, IEEE Transactions on Knowledge and Data Engineering, 29(11): 2426-2441, 2017

9. Jiaming Shen, Zeqiu Wu, Dongming Lei, Jingbo Shang, Xiang Ren, Jiawei Han, “SetExpan: Corpus-based Set Expansion via Context Feature Selection and Rank Ensemble”, in Proc. of 2017 European Conf. on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECMLPKDD’17), Skopje, Macedonia, Sept. 2017

10. Liyuan Liu, Xiang Ren, Qi Zhu, Shi Zhi, Huan Gui, Heng Ji and Jiawei Han, “Heterogeneous Supervision for Relation Extraction: A Representation Learning Approach”, in Proc. of 2017 Conf. on Empirical Methods in Natural Language Processing (EMNLP’17), Copenhagen, Denmark, Sept. 2017

11. Honglei Zhuang, Chi Wang, Fangbo Tao, Lance Kaplan and Jiawei Han, “Identifying Semantically Deviating Outlier Documents”, in Proc. of 2017 Conf. on Empirical Methods in Natural Language Processing (EMNLP’17), Copenhagen, Denmark, Sept. 2017
12. Meng Jiang, Jingbo Shang, Taylor Cassidy, Xiang Ren, Lance Kaplan, Timothy Hanratty and Jiawei Han, "MetaPAD: Meta Pattern Discovery from Massive Text Corpora", in Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'17), Halifax, Nova Scotia, Canada, Aug. 2017
13. Yu Shi, Po-Wei Chan, Honglei Zhuang, Huan Gui and Jiawei Han, "PreP: Path-Based Relevance from a Probabilistic Perspective in Heterogeneous Information Networks", in Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'17), Halifax, Nova Scotia, Canada, Aug. 2017
14. Meng Qi, Xiang Ren and Jiawei Han, "Automatic Synonym Discovery with Knowledge Bases", in Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'17), Halifax, Nova Scotia, Canada, Aug. 2017
15. Carl Yang, Lanxiao Bai, Chao Zhang, Quan Yuan and Jiawei Han, "Bridging Collaborative Filtering and Semi-Supervised Learning: A Neural Approach for POI recommendation", in Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'17), Halifax, Nova Scotia, Canada, Aug. 2017
16. Chao Zhang, Luyuan Liu, Dongming Lei, Quan Yuan, Honglei Zhuang, Tim Hanratty and Jiawei Han, "TrioVecEvent: Embedding-Based Online Local Event Detection in Geo-Tagged Tweet Streams", in Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'17), Halifax, Nova Scotia, Canada, Aug. 2017
17. Chao Zhang, Keyang Zhang, Quan Yuan, Fangbo Tao, Luming Zhang, Tim Hanratty, Jiawei Han, "ReAct: Online Multimodal Embedding for Recency-Aware Spatiotemporal Activity Modeling", in Proc. of 2017 ACM SIGIR Conf. on Research & Development in Information Retrieval (SIGIR'17), Tokyo, Japan, Aug. 2017
18. Jingbo Shang, Xiang Ren, Meng Jiang, and Jiawei Han, "Mining Entity-Relation-Attribute Structures from Massive Text Data" (conference tutorial), Proc. of 2017 ACM SIGKDD Int. Conf. on Knowledge Discovery and Data Mining (KDD'17), Halifax, Nova Scotia, Canada, August 2017.
19. Chao Zhang, Dongming Lei, Quan Yuan, Honglei Zhuang, Lance Kaplan, Shaowen Wang, Jiawei Han, "GeoBurst+: Effective and Real-Time Local Event Detection in Geo-Tagged Tweet Streams", accepted by ACM Transactions on Intelligent Systems and Technology (ACM-TIST), 2017.
20. Xiuli Ma, Guangyu Zhou, Jingbo Shang, Jingjing Wang, Jian Peng, and Jiawei Han, "Detection of Complexes in Biological Networks through Diversified Dense Subgraphs Mining", Journal of Computational Biology, 24 (9): 923–941, 2017
21. Xiang Ren, Jiaming Shen, Meng Qi, Xuan Wang, Zeqiu Wu, Qi Zhu, Meng Jiang, Fangbo Tao, Saurabh Sinha, David Liem, Peipei Ping, Richard Weinshilboum and Jiawei Han, "LifeNet: A Structured Network-Based Knowledge Exploration and Analytics System for Life Sciences", Proc. of 2017 Annual Meeting of the Association for Computational Linguistics (ACL’17), (system demo), Vancouver, Canada, July 2017
22. Lifu Huang, Jonathan May, Xiaoman Pan, Heng Ji, Xiang Ren, Jiawei Han, Lin Zhao, James A. Hendler, "Liberal Entity Extraction: Rapid Construction of Fine-Grained Entity Typing Systems", Big Data, 5(1):19-31, 2017
23. Xiang Ren, Meng Jiang, Jingbo Shang and Jiawei Han, "Building Structured Databases of Factual Knowledge from Massive Text Corpora", (conference tutorial), Proc. of 2017 ACM SIGMOD Int. Conf. on Management of Data (SIGMOD’17), June 2017.
25. Xiang Ren, Zeqiu Wu, Wenqi He, Meng Qi, Clare Voss, Heng Ji, Tarek Abdelzaher and Jiawei Han, "CoType: Joint Extraction of Typed Entities and Relations with Knowledge Bases", in Proc. of 2017 World-Wide Web Conf. (WWW’17), Perth, Australia, Apr. 2017.
26. Chao Zhang, Keyang Zhang, Quan Yuan, Haoru Peng, Yu Zheng, Tim Hanratty, Shaowen Wang and Jiawei Han, "Regions, Periods, Activities: Uncovering Urban Dynamics via Cross-Modal Representation Learning", in Proc. of 2017 World-Wide Web Conf. (WWW’17), Perth, Australia, Apr. 2017.
27. Xiang Ren, Meng Jiang, Jingbo Shang and Jiawei Han, "Constructing Structured Information Networks from Massive Text Corpora" (conference tutorial), Proc. of 2017 World-Wide Web Conf. (WWW’17), Perth, Australia, Apr. 2017.
28. Chao Zhang, Quan Yuan, and Jiawei Han, "Bringing Semantics to Spatiotemporal Data Mining: Challenges, Methods, and Applications" (Conference tutorial), Proc. of 2017 IEEE Int. Conf. on Data Engineering (ICDE’17), San Diego, California, Apr. 2017.
29. Xiang Ren, Yuanhua Lv, Kuansan Wang and Jiawei Han, "Comparative Document Analysis for Large Text Corpora", in Proc. of 2017 ACM Int. Conf. on Web Search and Data Mining (WSDM’17), Cambridge UK, Feb. 2017.
30. Quan Yuan, Wei Zhang, Chao Zhang, Xinhe Geng, Gao Cong and Jiawei Han, "Periodic Region Detection for Mobility Modeling of Social Media Users", in Proc. of 2017 ACM Int. Conf. on Web Search and Data Mining (WSDM’17), Cambridge UK, Feb. 2017.
31. Wenjun Jiang, Chenglin Xiao, Lu Su, Qi Li, Shaohan Hu, Shiguang Wang, Jing Gao, Hengchang Liu, Tarek F. Abdelzaher, Jiawei Han, Xue Liu, Yan Gao, and Lance Kaplan, "Towards Quality Aware Information Integration in Distributed Sensing Systems", in IEEE Transactions on Parallel and Distributed Systems, 2017.

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1. Huan Gui, Jialiu Liu, Fangbo Tao, Meng Jiang, Brandon T. Norick, and Jiawei Han, "Large-Scale Embedding Learning in Heterogeneous Event Data", in Proc. of 2016 Int. Conf. on Data Mining (ICDM’16), Barcelona, Spain, Dec. 2016.
2. Xiang Ren, Wenqi He, Meng Qi, Lifu Huang, Heng Ji, and Jiawei Han, "AFET: Automatic Fine-Grained Entity Typing by Hierarchical Partial-Label Embedding", in Proc. of 2016 Conf. on Empirical Methods in Natural Language Processing (EMNLP’16), Austin, TX, Nov. 2016
3. Meng Jiang, Peng Cui, and Jiawei Han, "Data-Driven Behavioral Analytics: Observations, Representations and Models", in Proc. of 2016 ACM Int. Conf. on Information and Knowledge Management (CIKM’16) (conference tutorial), Indianapolis, IN, Oct. 2016
4. Tarique Siddiqui, Xiang Ren, Aditya Parameswaran and Jiawei Han, "FaceGist: Collective Extraction of Document Faces in Large Technical Corpora", in Proc. of 2016 ACM Int. Conf. on Information and Knowledge Management (CIKM’16), Indianapolis, IN, Oct. 2016
5. Hongkun Yu, Jingbo Shang, Meichun Hsu, Malú Castellanos and Jiawei Han, "Data-Driven Contextual Valence Shifter Quantification for Multi-Theme Sentiment Analysis", in Proc. of 2016 ACM Int. Conf. on Information and Knowledge Management (CIKM’16), Indianapolis, IN, Oct. 2016
6. Qian Cheng, Jingbo Shang, Joshua Juen, Jiawei Han and Bruce Schatz, "Mining Discriminative Patterns to Predict Health Status for Cardiopulmonary Patients", in Proc. of 2016 ACM Conf. on Bioinformatics, Computational Biology, and Health Informatics (ACM-BCB’16), Seattle, WA, Oct. 2016
7. Chao Zhang, Honglei Zhuang, Chi Wang Yu, Qi Wang, Taylor Cassidy, Lance Kaplan, Clare Voss, Jiawei Han, "Multi-Dimensional, Phrase-Based Summarization in Text Cubes", Data Eng. Bulletin 39(3), Sept. 2016, pp. 74-84.
8. Di Lu, Claire R. Voss, Fangbo Tao, Xiang Ren, Rachel Guan, Rostyslav Korolov, Tongtao Zhang, Dongang Wang, Hongzhi Li, Taylor Cassidy, Heng Ji, Shih-Fu Chang, Jiawei Han, William Wallace, James Hendler, Mei Si and Lance Kaplan, “Cross-media Event Extraction and Recommendation”, in Proc. of 2016 Annual Conf. of the North American Chapter of the Association for Computational Linguistics (NAACL), 2016. [Demo System]

9. Huan Gui, Haishan Liu, Xiangrui Meng, Anmol Bhasin, Jiawei Han, “Downsize Management in Recommender Systems”, in Proc. of 2016 IEEE/ACM Int. Conf. on Advances in Social Networks Analysis and Mining (ASONAM’16), San Francisco, CA, Aug. 2016

10. Rostyslav Korolov, Di Lu, Jingbing Wang, Guangyu Zhou, Claire Bonial, Claire Voss, Lance Kaplan, William Wallace, Jiawei Han and Heng Ji, “On Predicting Social Unrest Using Social Media”, in Proc. of 2016 IEEE/ACM Int. Conf. on Advances in Social Networks Analysis and Mining (ASONAM’16), San Francisco, CA, Aug. 2016

11. Chao Zhang, Keyang Zhang, Quan Yuan, Luming Zhang, Tim Hanratty, and Jiawei Han, “GMove: Group-Level Mobility Modeling Using Geo-Tagged Social Media”, in Proc. of 2016 ACM SIGKDD Conf. on Knowledge Discovery and Data Mining (KDD’16), San Francisco, CA, Aug. 2016

12. Meng Jiang, Christos Faloutsos, Jiawei Han, “CatchTartan: Representing and Summarizing Dynamic Multicontextual Behaviors”, in Proc. of 2016 ACM SIGKDD Conf. on Knowledge Discovery and Data Mining (KDD’16), San Francisco, CA, Aug. 2016

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14. Menting Wan, Xiangyu Chen, Lance Kaplan, Jiawei Han, Jing Gao, Bo Zhao, “From Truth Discovery to Trustworthy Opinion Discovery: An Uncertainty-Aware Quantitative Modeling Approach”, in Proc. of 2016 ACM SIGKDD Conf. on Knowledge Discovery and Data Mining (KDD’16), San Francisco, CA, Aug. 2016

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16. Xiang Ren, Wenqi He, Ahmed El-Kishky, Claire R. Voss, Heng Ji, Meng Qu and Jiawei Han, “Entity Typing: A Critical Step for Mining Structures from Massive Unstructured Text”, in Proc. of 2016 Int. workshop on Mining and Learning with Graphs (MLG’16), colocated with KDD’16, San Francisco, CA, Aug. 14, 2016

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<td>2005</td>
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<td>Xiao Xin, Jiawei Han, Jiong Yang and Philip S. Yu</td>
<td>Efficient Classification across Multiple Database Relations: A CrossMine Approach</td>
<td>2005</td>
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<td>Xiaoxin Yin, Jiawei Han, Jianyong Wang, and Philip S. Yu</td>
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