## SDM14  Accepted Full Papers

| Paper Title | Author Names |
| --- | --- |
| Discovery of Rare Sequential Topic Pattern in Document Stream | Zhongyi Hu*, Iscas; hongan Wang, ; Maozhen Li, ; Jiaqi Zhu, |
| Linking Heterogeneous Input Spaces with Pivots for Multi-Task Learning | Jingrui He*, Stevens Institute of Technolog |
| When and Where: Predicting Human Movements Based on Social Spatial-Temporal Events | Ning Yang*, Sichuan University; Xiangnan Kong, University of Illinois at Chicago; Fengjiao Wang, University of Illinois at Chicago; Philip Yu, University of |
| Active Multitask Learning Using Both Latent and Supervised Shared Topics | Ayan Acharya*, University of Texas at Austin; Raymond Mooney, University of Texas at Austin; |
| VoG: Summarizing and Understanding Large Graphs | Danai Koutra*, Carnegie Mellon University; U Kang, KAIST; Jilles Vreeken, Max-Planck Institut für |
| Finding the True Frequent Itemsets | Matteo Riondato*, Brown University; Fabio Vandin, Department of Computer Science - Brown University |
| Keeping up with Innovation: A Predictive Framework for Modeling Healthcare Data with Evolving Clinical Interventions | Sunil Gupta*, Deakin University; Santu Rana, Deakin University; Dinh Phung, Deakin University; Svetha Venkatesh, Deakin University |
| Toward a Theory of Pattern Discovery | Jonathan Huggins*, MIT; Cynthia Rudin, MIT |
| Robust Subspace Discovery through Supervised Low-Rank Constraints | Sheng Li*, Northeastern University; Yun Fu, Northeastern University |
| Turbo-SMT: Accelerating Coupled Sparse Matrix-Tensor Factorizations by 200x | Evangelos Papalexakis*, Carnegie Mellon University; Tom Mitchell, Carnegie Mellon University; Nicholas Sidiropoulos, University of Minnesota; Christos |
| Learning from Multi-User Multi-Attribute Annotations | Ou Wu*, NLPR, Institute of Automation |
| DAVA: Distributing Vaccines over Networks under Prior Information | Yao Zhang*, Computer Science Virginia tech; B. Aditya Prakash, Virginia Tech |
| A Deep Learning Approach to Link Prediction in Dynamic Networks | Xiaoyi Li*, SUNY at Buffalo; Nan Du, State University of New York at Buffalo; Hui Li, SUNY-BUFFALO; Kang Li, State University of New York a; Jing Gao, State |

| | |
|---|---|
| Convex Optimization for Binary Classifier Aggregation in Multiclass Problems | Sunho Park*, UTSW Medical Center; Tae Hyun Hwang, UTSW Medical Center; Seungjin Choi, Pohang |
| Joint Author Sentiment Topic Model | Subhabrata Mukherjee*, Max Planck Institute for Informatics; Gaurab Basu, IBM India Research Lab; |
| Latent Factor Transition for Dynamic Collaborative Filtering | Chenyi Zhang*, Simon Fraser University; Ke Wang, Simon Fraser University; Hongkun Yu, Simon Fraser University; Jianling Sun, Zhejiang University; Ee-Peng |
| Adaptive User Distance Modeling in Social Media | Erheng Zhong*, HKUST; Wei Fan, Huawei; Qiang Yang, |
| Multi-Task Feature Selection on Multiple Networks via Maximum Flows | Mahito Sugiyama*, Max Planck Institutes Tübingen; Chloé-Agathe Azencott, Max Planck Institutes Tübingen; Dominik Grimm, Max Planck Institutes |
| Ensembles of Elastic Distance Measures for Time Series Classification | Jason Lines*, University of East Anglia; Anthony Bagnall,  University of East Anglia |
| Local Learning for Mining Outlier Subgraphs from Network Datasets | Manish Gupta*, Microsoft; Arun Mallya, UIUC; Subhro Roy, UIUC; Hyun DUk Cho, UIUC; Jiawei Han, |
| It takes two to tango: modeling social tie development with both online and offline interactions | Peifeng Yin*, Pennsylvania State University; Qi He, LinkedIn; Xingjie Liu, Google; Wang-Chien Lee, Pennsylvania State University |
| Selective Sampling and Labeling: from Crowdsourcing to Probabilistic Labels | PENG PENG*, Hkust; Raymond Chi-Wing Wong, Hong Kong University of Science and Technology |
| Learning on Probabilistic Labels | PENG PENG*, Hkust; Raymond Chi-Wing Wong, Hong Kong University of Science and Technology; Philip Yu, |
| Supervised Tensor Learning via Higher-Rank Structural Kernels | Lifang He*, SCUT; Xiangnan Kong, University of Illinois at Chicago; Philip Yu, University of Illinois; Ann Ragin, Northwestern University; Zhifeng Hao, Guangdong |
| Disambiguation-Free Partial Label Learning | Min-Ling Zhang*, Southeast University |
| Context-Preserving Hashing for Fast Text Classification | Lianhua Chi, ; Bin Li*, UTS; Xingquan Zhu, |
| A Probabilistic Approach to Uncovering Attributed Graph Anomalies | Nan Li*, UC Santa Barbara; Huan Sun, UC Santa Barbara; Kyle Chipman, UC Santa Barbara; Jemin |

| | |
|---|---|
| AUC dominant unsupervised ensemble of classifiers | Priyanka Agrawal, IBM Research, Bangalore; Vikas Raykar*, IBM Research; Amrita Saha, IBM Research, |
| A Dynamic Nonparametric Model for Characterizing the Topical Communities in Social Streams | Ziqi Liu*, Xi'an Jiaotong University; Fei Wang, |
| Class Augmented Active Learning | Hong CAO*, Institute for Infocomm Researc; Chunyu Bao, Institute for Infocomm Research; Xiaoli Li, Institute for Infocomm Research; Yew-Kwong Woon, |
| Turning the Tide: Curbing Deceptive Yelp Behaviors | Mahmudur Rahman, FIU; Bogdan Carbunar*, FIU; Jaime Ballesteros, Nokia; George Burri, FIU; Duen |
| Density Estimation with Adaptive Sparse Grids for Large Data Sets | Benjamin Peherstorfer*, Dept Informatics, TU Munich; Dirk Pflüger, ; Hans-Joachim Bungartz, |
| Mixed-Transfer: Transfer Learning over Mixed Graphs | Ben Tan*, HKUST; Erheng Zhong, HKUST; Michael Ng, Hong Kong Baptist University; Qiang Yang, |
| How Can I Index My Thousands of Photos Effectively and Automatically? An Unsupervised Feature Selection Approach | Juhua Hu*, Simon Fraser Univeristy; Jian Pei, Simon Fraser University |
| Triangle counting in streamed graphs via small vertex covers | David Garcia-Soriano*, Yahoo! Research Barcelona; Konstantin Kutzkov, IT University of Copenhagen |
| Batch Mode Active Learning with Hierarchical-Structured Embedded Variance | Yu Cheng*, Northwestern University; Zhengzhang Chen, Northwestern University; Hongliang Fei, IBM T.J. |
| User Preference Learning with Multiple Information Fusion for Restaurant Recommendation | Yanjie Fu, Rutgers University; Bin Liu, ; Yong Ge, UNCC; Zijun Yao, Rutgers University; Hui Xiong*, Rutgers University |
| Recurrent Chinese Restaurant Process with a Duration-based Discount for Event Identification from Twitter | Qiming Diao*, Singapore Management Univ; Jing Jiang, Singapore Management University |
| Consumer Segmentation and Knowledge Extraction from Smart Meter and Survey Data | Tri Kurniawan Wijaya*, EPFL; Tanuja Ganu, IBM Research India; Dipanjan Chakraborty, IBM Research India; Karl Aberer, EPFL; Deva Seetharam, IBM |
| Selecting a Representative Set of Diverse Quality Reviews Automatically | Nana Xu*, RenMin University of China; Hongyan Liu, Tsinghua University; Jiawei Chen, ; Jun He, Renmin |

| | |
|---|---|
| Contextual Combinatorial Bandit and its Application on Diversified Online Recommendation | Lijing Qin*, Tsinghua University; Shouyuan Chen, ; Xiaoyan Zhu, ; Michael Lyu, ; Irwin King, The Chinese University of Hong Kong |
| On Randomly Projected Hierarchical Clustering with Guarantees | Johannes Schneider*, Zurich insurances; Michail Vlachos, |
| A Generative Model with Network Regularization for Semi-Supervised Collective Classification | Ruichao Shi*, hitsz; qingyao Wu, ; Yuming Ye, ; Shen-Shyang Ho, |
| Self-Taught Spectral Clustering via Constraint Augmentation | Xiang Wang*, IBM; Jun Wang, ; Buyue Qian, ; Ian Davidson, "University of California, Davis" |
| Influence Maximization with Viral Product Design | Nicola Barbieri*, Yahoo Labs; Francesco Bonchi, Yahoo! Research Barcelona |
| Transductive HSIC Lasso | Dan He*, IBM |
| Laplacian Spectral Properties of Graphs from Random Local Samples | Zhengwei Wu*, Upenn; Victor Preciado, University of Pennsylvania |
| Unveiling Variables in Systems of Linear Equations | Behzad Golshan*, Boston University; Evimaria Terzi, Boston University |
| A Constructive Setting for the Problem of Density Ratio Estimation | Vladimir Vapnik, NEC Labs; Igor Braga*, University of Sao Paulo; Rauf Izmailov, Applied Communication |
| FlexiFaCT: Scalable Flexible Factorization of Coupled Tensors on Hadoop | Alex Beutel*, Carnegie Mellon University; Abhimanu Kumar, Carnegie Mellon University; Evangelos Papalexakis, Carnegie Mellon University; Partha Pratim, Carnegie Mellon University; Christos Faloutsos, |
| Make It or Break It: Manipulating Robustness in Large Networks | Hau Chan, Stony Brook University; Leman Akoglu*, SUNY Stony Brook; Hanghang Tong, The City College of |
| A Marginalized Denoising Method for Link Prediction in Relational Data | Zheng Chen*, Washington University; Weixiong Zhang, Washington University |
| Automatic Construction and Ranking of Topical Keyphrases on Collections of Short Documents | Marina Danilevsky*, University of Illinois; Wang Chi, ; Nihit Desai, University of Illinois; Xiang Ren, UIUC; Jingyi Guo, University of Massachussets; Jiawei Han, |

| | |
|---|---|
| Forecasting a Moving Target: Ensemble Models for ILI Case Count Predictions | Prithwish Chakraborty*, Virginia Tech; Pejman Khadivi, Virginia Tech; Bryan Lewis, Virginia Bioinformatics Institute, Virginia Tech, Blacksburg, VA 24060, USA; Aravindan Mahendiran, Dept. of Computer Science, Virginia Tech, Blacksburg, VA 24060, USA; Jiangzhuo Chen, Virginia Bioinformatics Institute, Virginia Tech, VA , USA; Patrick Butler, pabutler@vt.edu; Elaine Nsoesie, Boston's Children Hospital, MA; Harvard |
| Adaptive Quantization for Hashing: An Information-Based Approach to Learning Binary Codes | Caiming Xiong*, State University of New York a; wei Chen, suny at buffalo; Gang Chen, suny at buffalo; David Johnson, suny at buffalo; Jason Corso, suny at |
| Embed and Conquer: Scalable Embeddings for Kernel $k$-Means on MapReduce | Ahmed Elgohary*, University of Waterloo; Ahmed Farahat, University of Waterloo; Mohamed Kamel, |
| Predictive learning in the presence of heterogeneity and limited training data | Anuj Karpatne*, University of Minnesota; Ankush Khandelwal, University of Minnesota; Shyam Boriah, |
| Multi-Graph Learning with Positive and Unlabeled Bags | Jia Wu*, QCIS Centre, The University of Technology Sydney ; Zhibin Hong, QCIS Centre, University of Technology Sydney; Shirui Pan, QCIS Centre, University of Technology Sydney; Xingquan Zhu, Dept. of |
| A Constrained Hidden Markov Model Approach for Non-Explicit Citation Context Extraction | Parikshit Sondhi*, UIUC; ChengXiang Zhai, |
| On Modeling Community Behaviors and Sentiments in Microblogging | Tuan-Anh HOANG*, Singapore Management Universit; William Cohen, Carnegie Mellon University; Ee-Peng |

* = Contact Author