

16 April 2016		Conference, day 1 at TI Auditorium	
08:00 – 08:30	Registration		
08:30 – 09:00	Opening (Chair, Gopal Gupta, University of Texas at Dallas; TPC Chairs) <i>TI Auditorium</i>		
09:00 – 10:00	Keynote 10 Years Best Paper Award (Chair: Qing Li)		
10:00 – 10:30	Coffee break		
10:30 – 12:00	Session 1 <i>TI Auditorium</i> (Chair: Guoliang Li)	Session 2 2.410 (Chair: Weining Qian)	Session 2 2.412 (Chair: Xiaoling Wang)
12:10 – 13:30	Lunch Time		
13:30 – 15:30	Session 4 <i>TI Auditorium</i> (Chair: X. Sean Wang)	Session 5 2.410 (Chair: Xiaoyong Du)	Session 6 2.412 (Chair: Kyuseok Shim)
15:30 – 16:00	Coffee break		
16:00 – 18:00	Session 7 <i>TI Auditorium</i> (Chair: Hong Gao)	Session 8 2.410 (Chair: Yan Zhang)	Session 9 2.412 (Chair: Chunxiao Xing)
17:00 – 18:30	Steering Committee Meeting (ECSS 4.908)		

17 April 2016		Conference, day 2 at TI Auditorium & Clark Center	
08:00 – 08:30	Registration		
08:30 – 09:30	Keynote (Aidong Zhang, University of Buffalo and NSF) <i>TI Auditorium</i> (Chair: Hui Xiong)		
9:30 – 10:00	Coffee break		
10:00 – 12:00	Session 10 <i>TI Auditorium</i> (Chair: Pengpeng Zhao)	Session 11 2.410 (Chair: Hui Xiong)	Session 12 2.412 (Chair: Zhaonian Zou)
12:00 – 13:00	Lunch		
13:00 – 15:00	Session 13 <i>TI Auditorium</i> (Chair: Jinho Kim)	Session 14 2.410 (Chair: Xiaoyong Du)	Session 15 2.412 (Chair: Stephane Bressan)
15:00 – 15:30	Coffee break		
15:30 – 17:30	x	Session 16 2.410	Industry Talk 2.412 (Chair: Jun Liang)

		<i>(Chair: Qing Li)</i>	
18:30 – 20:00	Banquet		

18 April 2016		Conference, day 3 at Clark Center	
08:00 – 08:30		Registration	
08:30 – 09:30		Keynote (Jian Pei, Simon Fraser University) <i>TI Auditorium (Chair: Weili Wu)</i>	
9:30 – 10:00		Coffee break	
10:00 – 12:00		Session 17 <i>Clark Center: Campus Tour</i>	
12:00 – 13:00		Lunch Time	
13:00 – 15:30		<p>Session 28 SeCoP (<i>Clark Center</i>) <i>Wenhao Chen, Kin Keung Lai, Yi Cai.</i> Weibo Mood towards Stock Market.</p> <p><i>Xiangyu Zhao, Wei Chen, Feng Yang, Zhongqiang Liu.</i> Improving Diversity of User-based Two-step Recommendation Algorithm with Popularity Normalization</p> <p><i>Shuchen Li, Xiang Cheng, Sen Su, Le Jiang.</i> Followee Recommendation in Event-based Social Networks</p> <p><i>XiangSheng Li, Jianhui Pang, Biyun Mo, Yanghui Rao, Fu Lee Wang.</i> Deep Neural Network for Short-Text Sentiment Classification</p> <p><i>Jianhui Pang, XiangSheng Li, Haoran Xie, Yanghui Rao.</i> SBTM: Topic Modeling over Short Texts</p>	
15:30 – 15:45		Coffee break	
15:45 – 16:30		<p>Session 18 SeCoP (<i>Clark Center</i>) <i>Wei Chen, Xiangyu Zhao.</i> Similarity-based Classification for Big Non-structured and Semi-structured Recipe Data</p> <p><i>Chu Wang, Daling Wang, Shi Feng, Yifei Zhang.</i> An Approach of Fuzzy Relation Equation and Fuzzy-Rough Set for Multi-label Emotion Intensity Analysis</p>	

	<p><i>Guoyan Huang, Endong Zhu, Biyun Mo, Qingyuan Wu.</i> Features Extraction Based on Neural Network for Cross-Domain Sentiment Classification</p> <p><i>Tatiana Erekhinskaya, Mithun Balakrishna, Marta Tatu, Dan Moldovan.</i> Personalized Medical Reading Recommendation: Deep Semantic Approach</p> <p><i>Zhenhong Chen, Kai Yang, Yi Cai, Dongping Huang, Ho-fung Leung.</i> A Hybrid Model for Sentence Categorization</p>
16:30 – 18:00	<p>Session 19 SeCoP (<i>Clark Center</i>)</p> <p><i>Kai Yang, Zhenhong Chen, Yi Cai, Dongping Huang, Ho-fung Leung.</i> Improved Automatic Keyword Extraction Given More Semantic Knowledge</p> <p><i>Chao Wu, Yi Cai, Mei Zhao, Dongping Huang, Yike Guo.</i> Generating Computational Taxonomy for Business Models of the Digital Economy</p> <p><i>Wenjuan Cui.</i> How to Use the Social Media Data in Assisting Restaurant Recommendation</p> <p><i>Xiao Li, Xiang Cheng, Sen Su, Shuchen Li, Jianyu Yang.</i> A Combined Collaborative Filtering Model for Social Influence Prediction in Event-based Social Networks</p> <p><i>Zhenguo Yang, Qing Li, Wenyin Liu, Yun Ma.</i> Learning Manifold Representation from Multimodal Data for Event Detection in Flickr-like Social Media</p>

19 April 2016 Workshops, day 4 at TI Auditorium	
08:00 – 08:30	Registration
08:30 – 10:15	<p>Session 20 BDMS (<i>TI Auditorium</i>)</p> <p><i>Kaiqi Zhang, Donghua Yang, Hong Gao, Jianzhong Li, Hongzhi Wang and Zhipeng Cai.</i> VMPSP: Efficient Skyline Computation Using VMP-based Space Partitioning.</p> <p><i>Yingchi Mao, Xiaoli Chen and Zhuoming Xu.</i> Real-Time Event Detection with Water Sensor Networks using a Spatio-Temporal Model.</p>

	<p><i>Yan Tang, Zhuoming Xu and Yuanhang Zhuang.</i> Bayesian Network Structure Learning from Big Data: A Reservoir Sampling based Ensemble Method.</p> <p><i>Yi Zhang, Xiaolan Tang, Bowen Du, Weilin Liu, Juhua Pu and Chen Yujun.</i> Correlation Feature of Big Data in Smart Cities.</p> <p><i>Yawei Hu, Mingjun Xiao, Ruhong Cheng and Hualin Mao.</i> Nearly Optimal Probabilistic Coverage for Roadside Data Dissemination in Urban VANETs.</p>
10:15 – 10:30	Coffee break
10:30 – 12:00	<p>Session 21 BDMS (<i>TI Auditorium</i>)</p> <p><i>Hualin Mao, Mingjun Xiao and Yawei Hu.</i> OCC: Opportunistic Crowd Computing in Mobile Social Networks.</p> <p><i>Thanh Nguyen Trung and Minh Nguyen.</i> Forest of Distributed B+Tree Based on Key-Value Store for Big-Set Problem.</p> <p><i>Hongjie Fan, Junfei Liu, Wenfeng Luo, and Kejun Deng.</i> An Efficient Schema Matching Approach using Previous Mapping Result Set.</p> <p><i>Yitong Gao, Zhang Yan, Hongzhi Wang, Jianzhong Li and Hong Gao.</i> A Distributed Load Balance Algorithm in MapReduce.</p>
12:00 – 13:00	Lunch Time
13:00 – 15:30	<p>Session 22 BDQM (<i>TI Auditorium</i>)</p> <p><i>Jo~ao Marcelo Borovina Josko, Marcio K. Oikawa, and Jo~ao E. Ferreira.</i> A Formal Taxonomy to Improve Data Defect Description.</p> <p><i>Kaiqi Zhang, Hong Gao, Hongzhi Wang, and Jianzhong Li.</i> ISSA: Efficient Skyline Computation for Incomplete Data.</p> <p><i>Mingliang Yue, Hong Gao, Shengfei Shi and Hongzhi Wang.</i> Join Query Processing in Data quality management.</p>
15:30 – 15:45	Coffee break
15:45 – 16:30	<p>Session 23 BDQM (<i>TI Auditorium</i>)</p> <p><i>Yanzheng Wang, Hong Gao, Shengfei Shi, and Hongzhi Wang.</i> Similarity Search on Massive data based on FPGA.</p> <p><i>Jinchao Zhang, Zheng Lin, Bo Li, Weiping Wang, and Dan Meng.</i> Skyline Join Query Processing Over Multiple Relations.</p>

	<i>Tao Guang, Jinguang Gu, Li Huang.</i> Detect Redundant RDF Data by Rules.
16:30 – 18:00	<p>Session 24 MoI (<i>TI Auditorium</i>)</p> <p><i>Lixiang Guo, Zhaoyun Ding and Hui Wang.</i> Behavior-based Twitter Overlapping Community Detection.</p> <p><i>Yutaka Ohsawa and Htoo Htoo.</i> Versatile Safe-Region Generation Method for Continuous Monitoring of Moving Objects in the Road Network Distance.</p>

Detailed Schedule

Session1	Crowdsourcing
Qing Liu, Stéphane Bressan, Talel Abdessalem, Huayu Wu and Zihong Yuan	Cost Minimization and Social Fairness for Spatial Crowdsourcing Tasks
Yili Fang, Hailong Sun, Guoliang Li, Ricong Zhang and Jinpeng Huai	Effective Result Inference for Context-Sensitive Tasks in Crowdsourcing
Weikeng Chen, Zhou Zhao, Xinyu Wang and Wilfred Ng	Crowdsourced Query Processing on Microblogs
Session 2	Data Quality
Chen Ye, Hongzhi Wang, Jianzhong Li, Hong Gao and Siyao Cheng	Crowdsourcing-enhanced Missing Values Imputation based on Bayesian Network
Jian Zhou, Zhixu Li, Qiang Yang, Jia Zhu and Xiaofang Zhou	CrowdAidRepair: A Crowd-Aided Interactive Data Repairing Method

Meifan Zhang, Hongzhi Wang, Jianzhong Li and Hong Gao	One-pass Inconsistency Detection Algorithms for Big Data
Session 3	Entity Identification
Qiang Yang, Zhixu Li, Binbin Gu, An Liu, Guanfeng Liu, Pengpeng Zhao, Lei Zhao and Xiaofang Zhou	CTextEM: Using Consolidated Textual Data for Entity Matching
Jiangtao Zhang, Juanzi Li, Xiao-Li Li, Yao Shi and Junpeng Li	Domain-Specific Entity Linking via Fake Named Entity Detection
Chao Kong, Ming Gao, Weining Qian and Aoying Zhou	Entity Matching Across Multiple Heterogeneous Data Sources
Session 4	Data Mining and Machine Learning (1)
Son Mai, Ira Assent and Anh Le	Anytime OPTICS: An Efficient Approach for Hierarchical Density-based Clustering
Xiaoying Wu and Dimitri Theodoratos	Efficiently Mining Homomorphic Patterns from Large Data Trees
Bing Li, Bin Wang, Rui Zhou, Xiaochun Yang and Chengfei Liu	CITPM: A Cluster-based Iterative Topical Phrase Mining Framework
Haifeng Li and Ning Zhang	Probabilistic Maximal Frequent Itemset Mining over Uncertain Databases
Session 5	Recommendation(1)
Saeid Hosseini and Lei Li	Point-Of-Interest Recommendation Using Temporal Orientations of Users and Locations
Ming Han and Ling Feng	Expert Recommendation in Time-sensitive Online Shopping
Jiang Wang, Yuqing Zhu, Deying Li, Wenping Chen and Yongcai Wang	Joint User Attributes and Item Category in Factor Models for Rating Prediction
Yang Xu, Xiaoguang Hong, Zhaohui Peng, Guang Yang and Philip S. Yu	Temporal Recommendation via Modeling Dynamic Interests with Inverted-U-Curves
Session 6	Semantics computing and Knowledge base
Xiangling Zhang and Peishan Li	Knowledge Graph Completion via Local Semantic Contexts
Bo Xu, Yi Zhang, Jiaqing Liang, Yanghua Xiao, Seung-Won Hwang and Wei Wang	Cross-lingual Type Inference
Christoph Lofi, Athiq Ahamed, Pratima Kulkarni and Ravi Thakkar	Benchmarking the Semantic Capabilities of Analogy Querying Algorithms
Yan Zhuang, Guoliang Li, Zhuojian Zhong and Jianhua Feng	PBA: Partition and Blocking Based Alignment for Large Knowledge Bases
Session 7	Data Mining and Machine Learning (2)

Yongshan Zhang, Jia Wu, Chuan Zhou, Peng Zhang and Zhihua Cai	Multiple-Instance Learning with Evolutionary Instance Selection
Hongting Niu, Junming Liu, Yanjie Fu, Yanchi Liu and Bo Lang	Exploiting Human Mobility Patterns for Gas Station Site Selection
Yan Zhu, Hengshu Zhu, Qi Liu, Enhong Chen, Hong Li and Hongke Zhao	Exploring the Procrastination of College Students: A Data-Driven Behavioral Perspective
Sateesh Babu Giduthuri, Peilin Zhao and Xiao-Li Li	Deep Convolutional Neural Network Based Regression Approach for Estimation of Remaining Useful Life
Session 8	Recommendation(2)
Cong Zheng, Haihong E, Meina Song and Junde Song	TGTM: Temporal-Geographical Topic model for Point-of-Interest Recommendation
Keqiang Wang, Xiaoyi Duan, Jiansong Ma, Chaofeng Sha, Xiaoling Wang and Aoying Zhou	Local Weighted Matrix Factorization for Implicit Feedback Datasets
Yan Chen, Xin Li, Lin Li, Guiquan Liu, Enhong Chen and Guangdong Xu	Modeling User Mobility via User Psychological and Geographical Behaviors towards Point of-Interest Recommendation
Xiangyu Zhao, Tong Xu, Qi Liu and Hao Guo	Exploring the Choice under Conflict for Social Event Participation
Session 9	Textual Data
Yang Wei, Jinmao Wei, Zhenglu Yang and Yu Liu	Joint Probability Consistent Relation Analysis for Document Representation
Jiaying Wang, Xiaochun Yang, Bin Wang and Chengfei Liu	An Adaptive Approach of Approximate Substring Matching
Roya Rastan, Hye-Young Paik, John Shepherd and Armin Haller	Automated Table Understanding using Stub Patterns
Xinhuan Chen, Yong Zhang, Jennifer Xu, Chunxiao Xing and Hsinchun Chen	Deep Learning Based Topic Identification and Categorization: Mining Diabetes-Related Topics on Chinese Health Websites
Session 10	Social Networks
Wei Chen, Feida Zhu, Lei Zhao and Xiaofang Zhou	When Peculiarity Makes a Difference: Object Characterisation in Heterogeneous Information Networks
Yan Yan, Zhaowei Tan, Xiaofeng Gao, Shaojie Tang and Guihai Chen	STH-Bass: A Spatial-Temporal Heterogeneous Bass Model to Predict Single-Tweet Popularity
Yaxuan Wang, Hongzhi Wang, Jianzhong Li and Hong Gao	Efficient Influence Maximization in Weighted Independent Cascade Model

Zhi Liu and Yan Huang	Closeness and Structure of Friends Help to Estimate User Locations
Session 11	Complex Queries
Wei Song, Jianbin Qin, Muhammad Aamir Cheema and Wei Wang	Pre-computed : Region Guardian Sets Based Reverse kNN Queries
Shile Zhang, Chao Sun and Zhenying He	ListMerge: Accelerating Top-k Aggregation Queries over Large Number of Lists
Dan Yin, Hong Gao, Zhaonian Zou, Jianzhong Li and Zhipeng Cai	Approximate Iceberg Cube on Heterogeneous Dimensions
Zhengkui Wang, Yan Chu, Kian-Lee Tan, Divyakant Agrawal and Amr Ei Abadi	HaCube: Extending MapReduce for efficient OLAP cube materialization and view maintenance
Session 12	Similarity Computing
Jiali Mao, Qiuge Song, Cheqing Jin, Zhigang Zhang and Aoying Zhou	TSCluWin: Trajectory stream clustering over sliding window
Merih Seran Uysal, Daniel Sabinasz and Thomas Seidl	Approximation-based Efficient Query Processing with the Earth Mover's Distance
Zhihu Qian, Jiajie Xu and Kai Zheng	On Efficient Spatial Keyword Querying with Semantics
Peiquan Jin, Qian Wang and Christian S. Jensen	Effective Similarity Search on Indoor Moving-Object Trajectories
Session 13	Graph Databases
Zhaonian Zou	Bitruss Decomposition of Bipartite Graphs
Ningnan Zhou, Xuan Zhou, Xiao Zhang and Shan Wang	An I/O-Efficient Buffer Batch Replacement Policy for Update-Intensive Graph Databases
Qun Chen, Zhanhuai Li and Zachary G.Ivies	Parallelizing Maximal Clique Enumeration over Graph Data
Qi Fan, Zhengkui Wang, Chee-Yong Chan and Kian-Lee Tan	Towards NeighborhoodWindow Analytics over Large-scale Graphs
session 14	Advanced Applications(1)
Danhuai Guo, Yuanchun Zhou, Yingqiu Zhu and Jianhui Li	Species Distribution Modeling via Spatial Bagging of Multiple Conditional Random Fields
Huiping Liu, Cheqing Jin and Aoying Zhou	Popular Route Planning with Travel Cost Estimation from Trajectories
Xiaoyi Duan, Cheqing Jin, Xiaoling Wang, Aoying Zhou and Kun Yue	Realtime Personalized Taxi Sharing

Dong Wang, Wei Cao, Mengwen Xu and Jian Li	ETCPS: An Effective and Scalable Traffic Condition Prediction System
Session 15	Miscellaneous
Shaoying Song, Zhaonian Zou and Kang Liu	Triangle-based Representative Possible Worlds of Uncertain Graphs
Yanhui Li, Ye Yuan, Guoren Wang, Lei Chen and Jiajia Li	Semantic-aware Location Privacy Preservation on Road Networks
Liu Shushu, An Liu, Lei Zhao, Guanfeng Liu, Zhixu Li, Pengpeng Zhao and Kai Zheng	Efficient Query Processing with Mutual Privacy Protection for Location-Based Services
David Schwalb, Girish Kumar Bk, Markus Dreseler, Anusha S, Martin Faust, Adolf Hohl, Tim Berning, Gaurav Makkar, Hasso Plattner and Parag Deshmukh	Hyrise-NV: Instant Recovery for In-Memory Databases using Non-Volatile Memory
Session 16	Advanced Applications(2)
Yuping Liu, Qi Liu, Runze Wu, Enhong Chen, Yu Su, Zhigang Chen and Guoping Hu	Collaborative Learning Team Formation: A Cognitive Modeling Perspective
Li Jin, Yuanyuan Xue, Qi Li and Ling Feng	Detecting Adolescent Psychological Stress based on Human Mobility and Social Media
Hanhan Jiang, Pengpeng Zhao, Victor S Sheng, Jiajie Xu, An Liu, Jian Wu and Zhiming Cui	An Efficient Location-Aware Top-k Subscription Matching for Publish/Subscribe with Boolean Expressions
Ming He, Yong Ge, Le Wu, Enhong Chen and Qi Liu	Predicting the Popularity of DanMu-enabled Videos: A Multi-factor View