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| **16 April 2016** | **Conference, day 1 at TI Auditorium** | | |
| 08:00 – 08:30 | Registration | | |
| 08:30 – 09:00 | Opening (Chair, [Gopal Gupta](http://www.utdallas.edu/~gupta/), University of Texas at Dallas; TPC Chairs) ***TI Auditorium*** | | |
| 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 ***TI Auditorium （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 ***TI Auditorium （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 ***TI Auditorium （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)** | | |

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| **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) ***TI Auditorium（Chair：Hui Xiong）*** | | |
| 9:30 – 10:00 | Coffee break | | |
| 10:00 – 12:00 | Session 10 ***TI Auditorium （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 ***TI Auditorium （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 （Chair：Qing Li）*** | Industry Talk ***2.412 (Chair: Jun Liang)*** |
| 18:30 – 20:00 | Banquet |  | |

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| **18 April 2016** | **Conference, day 3 at Clark Center** |
| 08:00 – 08:30 | Registration |
| 08:30 – 09:30 | Keynote (Jian Pei, Simon Fraser University) ***TI Auditorium （Chair: Weili Wu）*** |
| 9:30 – 10:00 | Coffee break |
| 10:00 – 12:00 | Session 17 ***Clark Center: Campus Tour*** |
| 12:00 – 13:00 | Lunch Time |
| 13:00 – 15:30 | Session 28 SeCoP (***Clark Center)***  *Wenhao Chen, Kin Keung Lai, Yi Cai*. Weibo Mood towards Stock Market.  *Xiangyu Zhao, Wei Chen, Feng Yang, Zhongqiang Liu*. Improving Diversity of User-based Two-step Recommendation Algorithm with Popularity Normalization  *Shuchen Li, Xiang Cheng, Sen Su, Le Jiang*. Followee Recommendation in Event-based Social Networks  *XiangSheng Li, Jianhui Pang, Biyun Mo, Yanghui Rao, Fu Lee Wang*. Deep Neural Network for Short-Text Sentiment Classification  *Jianhui Pang, XiangSheng Li, Haoran Xie, Yanghui Rao*. SBTM: Topic Modeling over Short Texts |
| 15:30 – 15:45 | Coffee break |
| 15:45 – 16:30 | Session 18 SeCoP (***Clark Center)***  *Wei Chen, Xiangyu Zhao*. Similarity-based Classification for Big Non-structured and Semi-structured Recipe Data  *Chu Wang, Daling Wang, Shi Feng, Yifei Zhang*. An Approach of Fuzzy Relation Equation and Fuzzy-Rough Set for Multi-label Emotion Intensity Analysis  *Guoyan Huang, Endong Zhu, Biyun Mo, Qingyuan Wu*. Features Extraction Based on Neural Network for Cross-Domain Sentiment Classification  *Tatiana Erekhinskaya, Mithun Balakrishna, Marta Tatua, Dan Moldovan*. Personalized Medical Reading Recommendation: Deep Semantic Approach  *Zhenhong Chen, Kai Yang, Yi Cai, Dongping Huang, Ho-fung Leung*. A Hybrid Model for Sentence Categorization |
| 16:30 – 18:00 | Session 19 SeCoP (***Clark Center)***  *Kai Yang, Zhenhong Chen, Yi Cai, Dongping Huang, Ho-fung Leung*. Improved Automatic Keyword Extraction Given More Semantic Knowledge  *Chao Wu, Yi Cai, Mei Zhao, Dongping Huang, Yike Guo*. Generating Computational Taxonomy for Business Models of the Digital Economy  *Wenjuan Cui*. How to Use the Social Media Data in Assisting Restaurant Recommendation  *Xiao Li, Xiang Cheng, Sen Su, Shuchen Li, Jianyu Yang*. A Combined Collaborative Filtering Model for Social Influence Prediction in Event-based Social Networks  *Zhenguo Yang, Qing Li, Wenyin Liu, Yun Ma*. Learning Manifold Representation from Multimodal Data for Event Detection in Flickr-like Social Media |

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| **19 April 2016** | **Workshops, day 4 at TI Auditorium** |
| 08:00 – 08:30 | Registration |
| 08:30 – 10:15 | Session 20 BDMS (***TI Auditorium)***  *Kaiqi Zhang, Donghua Yang, Hong Gao, Jianzhong Li, Hongzhi Wang and Zhipeng Cai*. VMPSP: Efficient Skyline Computation Using VMP-based Space Partitioning.  *Yingchi Mao, Xiaoli Chen and Zhuoming Xu*. Real-Time Event Detection with Water Sensor Networks using a Spatio-Temporal Model.  *Yan Tang, Zhuoming Xu and Yuanhang Zhuang*. Bayesian Network Structure Learning from Big Data: A Reservoir Sampling based Ensemble Method.  *Yi Zhang, Xiaolan Tang, Bowen Du, Weilin Liu, Juhua Pu and Chen Yujun*. Correlation Feature of Big Data in Smart Cities.  *Yawei Hu, Mingjun Xiao, Ruhong Cheng and Hualin Mao*. Nearly Optimal Probabilistic Coverage for Roadside Data Dissemination in Urban VANETs. |
| 10:15 – 10:30 | Coffee break |
| 10:30 – 12:00 | Session 21 BDMS (***TI Auditorium)***  *Hualin Mao, Mingjun Xiao and Yawei Hu*. OCC: Opportunistic Crowd Computing in Mobile Social Networks.  *Thanh Nguyen Trung and Minh Nguyen*. Forest of Distributed B+Tree Based on Key-Value Store for Big-Set Problem.  *Hongjie Fan, Junfei Liu, Wenfeng Luo, and Kejun Deng*. An Efficient Schema Matching Approach using Previous Mapping Result Set.  *Yitong Gao, Zhang Yan, Hongzhi Wang, Jianzhong Li and Hong Gao*. A Distributed Load Balance Algorithm in MapReduce. |
| 12:00 – 13:00 | Lunch Time |
| 13:00 – 15:30 | Session 22 BDQM (***TI Auditorium)***  *Jo~ao Marcelo Borovina Josko, Marcio K. Oikawa, and Jo~ao E*. *Ferreira*. A Formal Taxonomy to Improve Data Defect Description.  *Kaiqi Zhang, Hong Gao, Hongzhi Wang, and Jianzhong Li*. ISSA: Efficient Skyline Computation for Incomplete Data.  *Mingliang Yue, Hong Gao, Shengfei Shi and Hongzhi Wang*. Join Query Processing in Data quality management. |
| 15:30 – 15:45 | Coffee break |
| 15:45 – 16:30 | Session 23 BDQM (***TI Auditorium)***  *Yanzheng Wang, Hong Gao, Shengfei Shi, and Hongzhi Wang*. Similarity Search on Massive data based on FPGA.  *Jinchao Zhang, Zheng Lin, Bo Li, Weiping Wang, and Dan Meng*. Skyline Join Query Processing Over Multiple Relations.  *Tao Guang, Jinguang Gu, Li Huang*. Detect Redundant RDF Data by Rules. |
| 16:30 – 18:00 | Session 24 MoI (***TI Auditorium)***  *Lixiang Guo, Zhaoyun Ding and Hui Wang*. Behavior-based Twitter Overlapping Community Detection.  *Yutaka Ohsawa and Htoo Htoo*. Versatile Safe-Region Generation Method for Continuous Monitoring of Moving Objects in the Road Network Distance. |

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| **Detailed Schedule** |  |
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| **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 Abbadi | 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 Applicaitions(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 |