

APWeb-WAIM 2009 Main Conference

Program

Friday, April 3

Time	Sessions
8:00~ 8:45	Registration
8:45~9:00	Opening Ceremony Room: Multifunctional Hall
9:00~ 9:50	Keynote Talk 1: Distributed XML Processing <i>Prof. Tamer Ozsu, University of Waterloo, Canada</i> Room: Multifunctional Hall Session Chair: Sean X. Wang
9:50~10:40	Keynote Talk 2: Towards Multi-modal Extraction and Summarization of Conversations <i>Prof. Raymond Ng, University of British Columbia, Canada</i> Room: Multifunctional Hall Session Chair: Jian Pei
10:40~11:00	Coffee Break
11:00~12:15	Session 1: Web Data Processing Room: Multifunctional Hall Session Chair: Lei Chen <ul style="list-style-type: none">Rank Aggregation to Combine QoS in Web Search (20 min) <i>Xiangyi Chen and Chen Ding</i>Personalized Delivery of On-Line Search Advertisement Based on User Interests (20 min) <i>Guangyi Xiao and Zhiguo Gong</i>Automatic Web Image Annotation via Web-Scale Image Semantic Space Learning (20 min) <i>Hongtao Xu, Xiangdong Zhou, Lan Lin, Yu Xiang, and Baile Shi</i>Grubber: Allowing End-Users to Develop XML-Based Wrappers for Web Data Sources (10 min) <i>Shaohua Yang, Guiling Wang, and Yanbo Han</i>

	<p>Session 2: Topic-Based Techniques I Room: Pingjiang Hall Session Chair: Zhiyong Peng</p> <ul style="list-style-type: none"> • IRank: A Term-Based Innovation Ranking System for Conferences and Scholars (20 min) <i>Zhixu Li, Xiaoyong Du, Hongyan Liu, Jun He, and Xiaofang Zhou</i> • A Generalized Topic Modeling Approach for Maven Search (20 min) <i>Ali Daud, Juanzi Li, Lizhu Zhou, and Faqir Muhammad</i> • Topic and Viewpoint Extraction for Diversity and Bias Analysis of News Contents (20 min) <i>Qiang Ma and Masatoshi Yoshikawa</i> • An Evaluation of Real-Time Transaction Services in Web Services E-Business Systems (10 min) <i>Hong-Ren Chen</i>
12:15~13:30	Lunch Break
14:00~14:50	<p>Keynote Talk 3: Semantic Computing <i>Prof. Phillip C-Y. Sheu, University of California at Irvine, USA and Director, State Key Lab of Software Engineering, Wuhan University, China</i></p> <p>Room: Multifunctional Hall Session Chair: Qing Li</p>
14:50~15:15	Coffee Break

15:15~17:00

Session 3: Query Processing I

Room: Multifunctional Hall

Session Chair: Chengfei Liu

- **Probabilistic Threshold Range Aggregate Query Processing over Uncertain Data (20 min)**
Shuxiang Yang, Wenjie Zhang, Ying Zhang, and Xuemin Lin
- **Simple but Effective Porn Query Recognition by k-NN with Semantic Similarity Measure (20 min)**
Shunkai Fu, Michel C. Desmarais, Bingfeng Pi, Ying Zhou, Weilei Wang, Gang Zou, Song Han, and Xunrong Rao
- **Continuous K-Nearest Neighbor Query over Moving Objects in Road Networks (20 min)**
Yuan-Ko Huang, Zhi-Wei Chen, and Chiang Lee
- **Parallel Load Balancing Strategies for Tree-Structured Peer-to-Peer Networks (10 min)**
Yaw-Huei Chen and Yu-Ren Ju
- **A Verification Mechanism for Secured Message Processing in Business Collaboration (10 min)**
Haiyang Sun, Jian Yang, Xin Wang, and Yanchun Zhang
- **Semantic Service Discovery by Consistency-Based Matchmaking (10 min)**
Rajesh Thiagarajan, Wolfgang Mayer, and Markus Stumptner
- **A Fast Heuristic Algorithm for the Composite Web Service Selection (10 min)**
Rong Wang, Chi-Hung Chi, and Jianming Deng
- **Complete and Equivalent Query Rewriting Using Views (10 min)**
Jianguo Lu, Minghao Li, John Mylopoulos, and Kenneth Cheung

Session 4: Multidimensional Data Analysis

Room: Pingjiang Hall

Session Chair: Wenyin Liu

- **Representing and Inferring Causalities among Classes of Multidimensional Data (20 min)**
Kun Yue, Mu-Jin Wei, Kai-Lin Tian, and Wei-Yi Liu
- **Efficient Incremental Computation of CUBE in Multiple Versions What-If Analysis (20 min)**
Yanqin Xiao, Yansong Zhang, Shan Wang, and Hong Chen
- **Incremental Computation for MEDIAN Cubes in What-If Analysis (20 min)**
Yanqin Xiao, Yansong Zhang, Shan Wang, and Hong Chen
- **The Tradeoff of Delta Table Merging and Re-writing Algorithms in What-If Analysis Application (20 min)**
Yansong Zhang, Yu Zhang, Yanqin Xiao, Shan Wang, and Hong Chen
- **Using Link-Based Content Analysis to Measure Document Similarity Effectively (10 min)**
Pei Li, Zhixu Li, Hongyan Liu, Jun He, and Xiaoyong Du
- **SLICE: A Novel Method to Find Local Linear Correlations by Constructing**

	<p>Hyperplanes (10 min) <i>Liang Tang, Changjie Tang, Lei Duan, Yexi Jiang, Jie Zuo, and Jun Zhu</i></p>
18:30~ 21:00	<p>Conference Banquet Tainhu Hall, Building 7#</p>

Saturday, April 4

Time	Sessions
8:30~9:00	Registration
9:00~10:30	<p>Session 5: Query Processing II Room: Shihu Hall Session Chair: Wei Wang</p> <ul style="list-style-type: none"> • C-Tree Indexing for Holistic Twig Joins (20 min) <i>Bo Ning, Chengfei Liu, and Guoren Wang</i> • Processing XML Keyword Search by Constructing Effective Structured Queries (20 min) <i>Jianxin Li, Chengfei Liu, Rui Zhou, and Bo Ning</i> • Representing Multiple Mappings between XML and Relational Schemas for Bi-directional Query Translation (20 min) <i>Ya-Hui Chang and Chia-Zhen Lee</i> • Finding Irredundant Contained Rewritings of Tree Pattern Queries Using Views (20 min) <i>Junhu Wang, Kewen Wang, and Jiuyong Li</i> • New Balanced Data Allocating and Online Migrating Algorithms in Database Cluster (10 min) <i>Weihua Gong, Lianghuai Yang, Decai Huang, and Lijun Chen</i> <p>Session 6: Stream Data Processing Room: Pingjiang Hall Session Chair: Xuemin Lin</p> <ul style="list-style-type: none"> • Efficiently Clustering Probabilistic Data Streams (20 min) <i>Chen Zhang, Cheqing Jin, and Aoying Zhou</i> • Detecting Abnormal Trend Evolution over Multiple Data Streams (20 min) <i>Chen Zhang, Nianlong Weng, Jianlong Chang, and Aoying Zhou</i> • Mining Interventions from Parallel Event Sequences (20 min) <i>Ning Yang, Changjie Tang, Yue Wang, Rong Tang, Chuan Li, Jiaoling Zheng, and Jun Zhu</i> • Effective Similarity Analysis over Event Streams Based on Sharing Extent (20 min)

	<p><i>Yanqiu Wang, Ge Yu, Tiancheng Zhang, Dejun Yue, Yu Gu, and Xiaolong Hu</i></p> <ul style="list-style-type: none"> • Intervention Events Detection and Prediction in Data Streams (10 min) <i>Yue Wang, Changjie Tang, Chuan Li, Yu Chen, Ning Yang, Rong Tang, and Jun Zhu</i>
10:30~10:45	Coffee Break
10:45~12:00	<p>Session 7: Data Mining and its Applications I Room: Shihu Hall Session Chair: Changjie Tang</p> <ul style="list-style-type: none"> • A Term-Based Driven Clustering Approach for Name Disambiguation (20 min) <i>Jia Zhu, Xiaofang Zhou, and Gabriel Pui Cheong Fung</i> • Sentiment Clustering: A Novel Method to Explore in the Blogosphere (20 min) <i>Shi Feng, Daling Wang, Ge Yu, Chao Yang, and Nan Yang</i> • Kernel-Based Transductive Learning with Nearest Neighbors (20 min) <i>Liangcai Shu, Jinhui Wu, Lei Yu, and Weiyi Meng</i> • Directly Identify Unexpected Instances in the Test Set by Entropy Maximization (10 min)
	<p>Session 8: Data Management Support to Advanced Applications I Room: Pingjiang Hall Session Chair: Howard Leung</p> <ul style="list-style-type: none"> • StreetTiVo: Using a P2P XML Database System to Manage Multimedia Data in Your Living Room (20 min) <i>Ying Zhang, Arjen de Vries, Peter Boncz, Djoerd Hiemstra, and Roeland Ordelman</i> • Qualitative Spatial Representation and Reasoning for Data Integration of Ocean Observational Systems (20 min) <i>Longzhuang Li, Yonghuai Liu, Anil Kumar Nalluri, and Chunhui Jin</i> • Formal Definition and Detection Algorithm for Passive Event in RFID Middleware (10 min) <i>Wei Ye, Wen Zhao, Yu Huang, Wenhui Hu, Shikun Zhang, and Lifu Wang</i> • Optimizing Many-to-Many Data Aggregation in Wireless Sensor Networks (10 min) <i>Shuguang Xiong and Jianzhong Li</i> • Efficient Hybrid Password-Based Authenticated Group Key Exchange (10 min) <i>Shuhua Wu and Yuefei Zhu</i>
12:00~13:30	Lunch Break

	<p>Session 9: Query Processing III Room: Shihu Hall Session Chair: An Liu</p> <ul style="list-style-type: none"> • Data Quality Aware Queries in Collaborative Information Systems (20 min) <i>N.K. Yeganeh, S. Sadiq, K. Deng, and X. Zhou</i> • Dynamic Data Migration Policies for Query-Intensive Distributed Data Environments (20 min) <i>Tengjiao Wang, Bishan Yang, Allen Huang, Qi Zhang, Jun Gao, Dongqing Yang, Shiwei Tang, and Jinzhong Niu</i> • Selective-NRA Algorithms for Top-k Queries (20 min) <i>Jing Yuan, Guang-Zhong Sun, Ye Tian, Guoliang Chen, and Zhi Liu</i> • Optimal K-Nearest-Neighbor Query in Data Grid (10 min) <i>Yi Zhuang, Hua Hu, Xiaojun Li, Bin Xu, and Haiyang Hu</i> • Distributed Benchmarking of Relational Database Systems (10 min) <i>Murilo R. de Lima, Marcos S. Suny'e, Eduardo C. de Almeida, and Alexandre I. Direne</i> • An Affinity Path Based Wireless Broadcast Scheduling Approach for Multi-item Queries (10 min) <i>Wei Li, Zhuoyao Zhang, Weiwei Sun Dingding Mao, and Jingjing Wu</i>
13:30~15:00	<p>Session 10: Topic-Based Techniques II Room: Pingjiang Hall Session Chair: Baoping Lin</p> <ul style="list-style-type: none"> • Topic-Level Random Walk through Probabilistic Model (20 min) <i>Zi Yang, Jie Tang, Jing Zhang, Juanzi Li, and Bo Gao</i> • Query-Focused Summarization by Combining Topic Model and Affinity Propagation (20 min) <i>Dewei Chen, Jie Tang, Limin Yao, Juanzi Li, and Lizhu Zhou</i> • Short Text Clustering for Search Results (10 min) <i>Xingliang Ni, Zhi Lu, Xiaojun Quan, Liu Wenyin, and Bei Hua</i> • Performance Analysis of Group Handover Scheme for IEEE 802.16j-Enabled Vehicular Networks (10 min) <i>Lianhai Shan, Fuqiang Liu, and Kun Yang</i> • Decentralized Orchestration of BPEL Processes with Execution Consistency (10 min) <i>Weihai Yu</i> • Let Wiki Be More Powerful and Suitable for Enterprises with External Program (10 min) <i>Yang Zhao, Yong Zhang, and Chunxiao Xing</i> • DepRank: A Probabilistic Measure of Dependence via Heterogeneous Links (10 min) <i>Pei Li, Bo Hu, Hongyan Liu, Jun He, and Xiaoyong Du</i>
15:00~15:15	Coffee Break

	<p>Session 11: Data Mining and its Applications II Room: Shihu Hall Session Chair: Hai Liu</p> <ul style="list-style-type: none"> • An Improved Algorithm for Mining Non-Redundant Interacting Feature Subsets (20 min) <i>Chaofeng Sha, Jian Gong, and Aoying Zhou</i> • AutoPCS: A Phrase-Based Text Categorization System for Similar Texts (20 min) <i>Zhixu Li, Pei Li, Wei Wei, Hongyan Liu, Jun He, Tao Liu, and Xiaoyong Du</i> • A Probabilistic Approach for Mining Drifting User Interest (20 min) <i>Pin Zhang, Juhua Pu, Yongli Liu, and Zhang Xiong</i> • Temporal Company Relation Mining from the Web (20 min) <i>Changjian Hu, Liqin Xu, Guoyang Shen, and Toshikazu Fukushima</i> • Bag of Timestamps: A Simple and Efficient Bayesian Chronological Mining (10 min) <i>Tomonari Masada, Atsuhiko Takasu, Tsuyoshi Hamada, Yuichiro Shibata, and Kiyoshi Oguri</i> • Lightweight Data Mining Based Database System Self-optimization: A Case Study (10 min) <i>Qin Xiongpai, Cao Wei, and Wang Shan</i>
15:15~17:00	<p>Session 12: Data Management Support to Advanced Applications II Room: Pingjiang Hall Session Chair: Xiaoning Cui</p> <ul style="list-style-type: none"> • Managing Hierarchical Information on Small Screens (20 min) <i>Jie Hao, Kang Zhang, Chad Allen Gabrysch, and Qiaoming Zhu</i> • An Approach to Detect Collaborative Conflicts for Ontology Development (20 min) <i>Yewang Chen, Xin Peng, and Wenyun Zhao</i> • A Routing Scheme with Localized Movement in Event-Driven Wireless Sensor Networks (10 min) <i>Fang-Yie Leu, Wen-Chin Wu, and Hung-Wei Huang</i> • Load Shedding for Shared Window Join over Real-Time Data Streams (10 min) <i>Li Ma, Dangwei Liang, Qiongsheng Zhang, Xin Li, and Hongan Wang</i> • A Sliding-Window Approach for Finding Top-k Frequent Itemsets from Uncertain Streams (10 min) <i>Xiaojian Zhang and Huili Peng</i> • A Novel ID-Based Anonymous Signcryption Scheme (10 min) <i>Jianhong Zhang, Shengnan Gao, Hua Chen, and Qin Geng</i> • Pseudo Period Detection on Time Series Stream with Scale Smoothing (10 min) <i>Xiaoguang Li, Long Xie, Baoyan Song, Ge Yu, and Daling Wang</i> • Efficient Detection of Discords for Time Series Stream (10 min) <i>Yubao Liu, Xiuwei Chen, Fei Wang, and Jian Yin</i>
17:00~17:10	Conference Close