

## CIKM'10 Program at a Glance

On-Site Registration: October 26-30, 7:45-18:00 [Second Floor Lobby]					
Tuesday, October 26: Workshops and Tutorials					
Wednesday October 27, 2010	8:10-8:30: <b>Conference Opening</b> [Imperial Room]				
	8:30-9:30: <b>Keynote Talk</b> [Imperial Room] Search Engine Support for Software Applications, Jamie Callan, Carnegie Mellon University				
	9:30-10:00: <b>Coffee Break</b> [Imperial Foyer]				
	10:00 -	<b>Session 1A</b> [Room: Alberta] <b>KM: Information Extractions</b>	<b>Session 1B</b> [Room: Quebec] <b>IR: Ranking and Retrieval Model</b>	<b>Session 1C</b> [Room: British Columbia] <b>DB: Indexes and Query Optimization</b>	<b>Session 1D</b> [Room: Tudor 7 & 8] <b>IR: Domain-Specific and Multimedia IR</b>
	12:00	12:00-13:30: <b>Lunch and Posters</b> [Imperial Room]			
	13:00 -	<b>Session 2A</b> [Room: Alberta] <b>KM: Link and Graph Mining</b>	<b>Session 2B</b> [Room: Quebec] <b>IR: Machine Learning for IR (I)</b>	<b>Session 2C</b> [Room: British Columbia] <b>DB: Mobile and Distributed Data</b>	<b>Session 2D</b> [Room: Tudor 7 & 8] <b>KM: Classification and Clustering</b>
	15:30	15:30-16:00: <b>Coffee Break</b> [British Columbia Foyer]			
	16:00 -	<b>Session 3A</b> [Room: Alberta] <b>KM: Large-Scale Statistical Techniques</b>	<b>Session 3B</b> [Room: Quebec] <b>IR: Machine Learning for IR (II)</b>	<b>Session 3C</b> [Room: British Columbia] <b>DB: Top-K and Shortest Path Processing</b>	<b>Session 3D</b> [Room: Tudor 7 & 8] <b>IR: IR Evaluation</b>
	17:40	18:00-21:00: <b>Conference Reception and Posters</b> [Imperial Room]			
	Thursday October 28, 2010	8:30-9:30: <b>Keynote Talk</b> [Imperial Room] Schema Extraction, Divesh Srivastava, AT&T Labs-Research			
9:30-10:00: <b>Coffee Break</b> [Imperial Foyer]					
10:00 -		<b>Session 4A</b> [Room: Alberta] <b>KM: Information Filtering and Recommender Systems (I)</b>	<b>Session 4B</b> [Room: Quebec] <b>IR: Social Networks and Text Mining</b>	<b>Session 4C</b> [Room: British Columbia] <b>Industry: IR Applications</b>	<b>Session 4D</b> [Room: Tudor 7 & 8] <b>DB: Information Retrieval in Databases</b>
12:00		12:30-13:30: <b>Lunch</b> [On Your Own]			
13:30 -		<b>Session 5A</b> [Room: Alberta] <b>KM: Temporal, Spatial and Stream Data Mining</b>	<b>Session 5B</b> [Room: Quebec] <b>IR: Filtering and Recommendation</b>	<b>Session 5C</b> [Room: British Columbia] <b>Industry: Databases and OLAP</b>	<b>Session 5D</b> [Room: Tudor 7 & 8] <b>KM: Data Pre- and Post- Processing</b>
15:30		15:30-16:00: <b>Coffee Break</b> [Imperial Foyer]			
16:00 -		<b>Demo Session A</b> [Room: Imperial] <b>IR(I)</b>	<b>Demo Session B</b> [Room: Imperial] <b>IR(II)</b>	<b>Demo Session C</b> [Room: Imperial] <b>DB</b>	<b>Demo Session D</b> [Room: Imperial] <b>KM</b>
17:30		18:30-21:30: <b>Conference Banquet</b> [Governor's Room, Liberty Grand, 25 British Columbia Road]			
Friday October 29, 2010	8:30-9:30: <b>Keynote Talk</b> [Imperial Room] Use of Semantics in Real Life Applications, Gregory Grefenstette, Exalead				
	9:30-10:00: <b>Coffee Break</b> [Imperial Foyer]				
	10:00 -	<b>Session 6A</b> [Room: Alberta] <b>KM: Information Filtering and Recommender Systems (II)</b>	<b>Session 6B</b> [Room: Quebec] <b>IR: User Modeling and Search Personalization</b>	<b>Session 6C</b> [Room: British Columbia] <b>Industry: Web and Social Networks</b>	<b>Session 6D</b> [Room: Tudor 7 & 8] <b>IR: Query Analysis and Feedback</b>
	12:00	12:00-13:30: <b>Lunch</b> [Ballroom]			
	13:30-14:30: <b>Keynote Talk</b> [Imperial Room] Temporal Dynamics and Information Retrieval, Susan Dumais, Microsoft Research				
	14:30-15:00: <b>Coffee Break</b> [Imperial Foyer]				
	15:00 -	<b>Session 7A</b> [Room: Alberta] <b>KM: Semantic Techniques</b>	<b>Session 7B</b> [Room: Quebec] <b>IR: Web Search</b>	<b>Session 7C</b> [Room: British Columbia] <b>Industry: Text Mining and Analytics</b>	<b>Session 7D</b> [Room: Tudor 7 & 8] <b>IR: Scalability and Efficiency</b>
17:00	Saturday, October 30, 2010: <b>Workshops</b>				

**CIKM'10 Main Conference Program****Wednesday, October 27, 2010****Conference Opening (October 27, 8:10-8:30)****Room:** Imperial**Welcome:** Conference Chair**Program Introduction:** PC Chairs**Keynote Talk (October 27, 8:30-9:30)****Chair:** Jimmy Huang**Room:** Imperial**Title:** Search Engine Support for Software Applications**Speaker:** Jamie Callan, *Carnegie Mellon University***Coffee Break (9:30-10:00, Imperial Foyer)****Session 1A (October 27, 10:00-12:00)****KM Track:** Information Extraction**Chair:** Charles Clarke**Room:** Alberta

- Components for Information Extraction: Ontology-Based Information Extractors and Generic Platforms, *Daya Wimalasuriya and Dejing Dou*
- Automatically Acquiring a Semantic Network of Related Concepts, *Sean Szumlansku and Fernando Gomez*
- Online Annotation of Text Streams with Structured Entities, *Ken Pu, Richard Drake, Oktie Hassanzadeh and Renee Miller*
- Automatic Extraction of Web Data Records Containing User-Generated Context, *Xinying Song, Jing Liu, Yunbo Cao and Chin-Yew Lin*
- An Effective Algorithm for Mining Time Interval-based Patterns in Large Database, *Yi-cheng, Ji-Chiang Jiang, Wen-Chih Peng and Suh-Yin Lee*

**Session 1B (October 27, 10:00-12:00)****IR Track:** Ranking and Retrieval Model**Chair:** Jian-Yun Nie**Room:** Quebec

- What can Quantum Theory Bring to Information Retrieval? *Benjamin Piwowarski, Ingo Frommholz, Mounia Lalmas and Keith van Rijsbergen*
- Entity Ranking using Wikipedia as a Pivot, *Rianne Kaptein, Jaap Kamps, Pavel Serdyukov and Arjen de Vries*
- Ranking under Temporal Constraints, *Lidan Wang, Donald Metzler and Jimmy Lin*
- Examining the Information Retrieval Process from an Inductive Perspective, *Ronan Cummins, Mounia Lalmas and Colm O'Riordan*
- On Identifying Representative Relevant Documents, *Fiana Raiber and Oren Kurland*

**Session 1C (October 27, 10:00-12:00)****DB Track:** Indexes and Query Optimization**Chair:** David Cheung**Room:** British Columbia

- On the Selectivity of Multidimensional Routing Indices, *Christos Doulkeridis, Akrivi Vlachou, Kjetil Noervaag, Yannis Kotidis and Michalis Vazirgiannis*
- Path-Hop: Efficiently Indexing Large Graphs for Reachability Queries, *Jing Cai and Chung Keung Poon*
- On Wavelet Decomposition of Uncertain Time Series Data Sets, *Yuchen Zhao, Charu Aggarwal and Philip Yu*
- Efficient Set-Correlation Operator inside Databases, *Shaoxu Song and Lei Chen*
- Online Update of B-trees, *Marina Barsky, Alex Thomo, Zoltan Toth and Calisto Zuzarte*

**Session 1D (October 27, 10:00-12:00)****IR Track:** Domain-Specific and Multimedia IR**Chair:** Gareth Jones**Room:** Tudor 7 & 8

- Wisdom of the Ages: Toward Delivering the Children's Web with the Link-based AgeRank Algorithm, *Karl Gyllstrom and Marie-Francine Moens*
- A Cross-lingual Framework for Monolingual Biomedical Information Retrieval, *Dolf Trieschnigg, Djoerd Hiemstra, Franciska de Jong and Wessel Kraaij*
- Multi-Modal Multi-Correlation Personal News Retrieval, *Zechao Li, Jing Liu, Xiaobin Zhu and Hanqing Lu*
- Bringing Order to Your Photos: Event-Driven Classification of Flickr Images Based on Social Knowledge, *Claudiu Firan, Mihai Georgescu, Wolfgang Nejdl and Raluca Paiu*

**Lunch and Posters (12:00-13:30)****Room:** Imperial**Session 2A (October 27, 13:30-15:30)****KM Track:** Link and Graph Mining**Chair:** Benjamin Fung**Room:** Alberta

- Mining Topic-Level Influence in Heterogeneous Networks, *Lu Liu, Jie Tang, Meng Jiang, Jiawei Han and Shiqiang Yang*
- Mining Interesting Link Formation Rules in Social Networks, *Cane Wing-ki Leung, Ee-Peng Lim, David Lo and Jianshu Weng*
- SHRINK: A Structural Clustering Algorithm for Detecting Hierarchical Communities in Networks, *Jianbin Huang, Heli Sun, Jiawei Han, Hongbo Deng and Yizhou Sun*
- Outcome Aware Ranking in Interaction Networks, *S Kameshwaran, Sameep Mehta and Vinayaka Pandit*
- Expansion and Search in Networks, *Arun Maiya and Tanya Berger-Wolf*

**Session 2B (October 27, 13:30-15:30)****IR Track:** Machine Learning for IR (I)**Chair:** David Grossman**Room:** Quebec

- Improved Latent Concept Expansion Using Hierarchical Markov Random Fields, *Hao Lang, Donald Metzler, Bin Wang and Jin-Tao Li*
- Term Necessity Prediction, *Le Zhao and Jamie Callan*
- Decomposing Background Topics from Keywords by Principal Component Pursuit, *Kerui Min, Zhengdong Zhang, John Wright and Yi Ma*
- Document Update Summarization using Incremental Hierarchical Clustering, *Dingding Wang and Tao Li*
- How about utilizing ordinal information from the distribution of unlabeled data? *Mingjie Qian, Bo Chen and Hongwei Qi*

**Session 2C (October 27, 13:30-15:30)****DB Track:** Mobile and Distributed Data Management**Chair:** Frank Tompa**Room:** British Columbia

- Automatic Schema Merging Using Mapping Constraints over Incomplete Sources, *Xiang Li, Christoph Quix, David Kenschke and Sandra Geisler*
- Preserving Location and Absence Privacy in Geo-Social Networks, *Dario Freni, Carmen Ruiz Vicente, Sergio Mascetti, Claudio Bettini and Christian S. Jensen*
- Preference Query Evaluation Over Expensive Attributes, *Justin Levandoski, Mohamed Mokbel and Mohamed Khalefa*
- Energy-Efficient Top-k Query Processing in Wireless Sensor Networks, *Baichen Chen, Weifa Liang, Rui Zhou and Jeffrey Yu*
- StableBuffer: Optimizing Write Performance for DBMS Applications on Flash Devices, *LI YU, Xu Jianliang, Byron CHOI and Haibo Hu*

**Session 2D (October 27, 13:30-15:30)****KM Track:** Classification and Clustering**Chair:** Dominic Slezak**Room:** Tudor 7 & 8

- Mr.KNN: Soft Relevance for Multi-label Classification, *Xiaotong Lin and Xue-wen Chen*
- Collaborative Dual-PLSA: Mining Distinction and Commonality across Multiple Domains for Classification, *Fuzhen Zhuang, Ping Luo, Zhiyong Shen, Qing He, Yuhong Xiong, Zhongzhi Shi and Hui Xiong*
- Inferring Gender of Movie Reviewers: Exploiting Writing Style, Content and Metadata, *Jahna Otterbacher*
- A Robust Semi-supervised Classification Method for Transfer Learning, *Akinori Fujino, Naonori Ueda and Masaaki Nagata*
- Multi-View Clustering with Constraint Propagation for Learning with an Incomplete Mapping Between Views, *Eric Eaton, Marie desJardins and Sara Jacob*

**Coffee Break (15:30-16:00, British Columbia Foyer)****Session 3A (October 27, 16:00-17:40)****KM Track:** Large-scale Statistical Techniques**Chair:** Chris Clifton**Room:** Alberta

- Pricing Guaranteed Contracts in Online Display Advertising, *Vijay Bharadwaj, Wenjing Ma, Michael Schwarz, Jayavel Shanmugasundaram, Erik Vee, Jack Xie and Jian Yang*
- Maximum Normalized Spacing for Efficient Visual Clustering, *Zhi-Gang Fan, Yadong Wu and Bo Wu*
- Multilevel Manifold Learning with Application to Spectral Clustering, *Haw-ren Fang, Sophia Sakellari and Yousef Saad*
- Accelerating Probabilistic Frequent Itemset Mining: A Model-Based Approach, *Liang Wang, Reynold Cheng, Sau Dan Lee and David Cheung*

**Session 3B (October 27, 16:00-17:40)****IR Track:** Machine Learning for IR (II)**Chair:** Irwin King**Room:** Quebec

- Learning Click Models via Probit Bayesian Inference, *Yuchen Zhang, Gang Wang and Weizhu Chen*
- Document Allocation Policies for Selective Searching of Distributed Indexes, *Anagha Kulkarni and Jamie Callan*
- Rank Learning for Factoid Question Answering with Linguistic and Semantic Constraints, *Matthew Bilotti, Jonathan Elsas, Jaime Carbonell and Eric Nyberg*
- Learning to Rank Relevant and Novel Documents through User Feedback, *Abhimanyu Lad and Yiming Yang*

**Session 3C (October 27, 16:00-17:40)****DB Track:** Top-K and Shortest Path Processing**Chair:** Xiaohui Yu**Room:** British Columbia

- Set Cover Algorithms For Very Large Datasets, *Graham Cormode, Howard Karloff and Anthony Wirth*
- The Gist of Everything New: Personalized Top-k Processing over Web 2.0 Streams, *Parisa Haghani, Sebastian Michel and Karl Aberer*
- Fast and Accurate Estimation of Shortest Paths in Large Graphs, *Andrey Gubichev, Srikanta Bedathur, Stephan Seufert and Gerhard Weikum*
- Fast Top-k Simple Shortest Paths Discovery on Graphs, *Gao Jun, Huida Qiu and Xiao Jiang*

**Session 3D (October 27, 16:00-17:40)****IR Track:** IR Evaluation**Chair:** Susan Dumais**Room:** Tudor 7 & 8

- Factors Affecting Click-Through Behavior in Aggregated Search Interfaces, *Shanu Sushmita, Hideo Joho, Mounia Lalmas and Robert Villa*
- Web Search Solved? All Result Rankings the Same? *Hugo Zaragoza, B. Barla Cambazoglu and Ricardo Baeza-Yates*
- Assessor Error in Stratified Evaluation, *William Webber, Doug Oard, Falk Scholer and Bruce Hedin*
- CiteData: A New Multi-faceted Dataset for Evaluating Personalized Search Performance, *Abhay Harpale, Yiming Yang, Siddharth Gopal, Daqing He and Zhen Yue*

**Conference Reception and Posters (October 27, 18:00-21:00)****Room:** Imperial

Thursday, October 28, 2010

**Keynote Talk (October 28, 8:30-9:30)****Chair:** Nick Koudas**Room:** Imperial**Title:** Schema Extraction**Speaker:** Divesh Srivastava, *AT&T Labs-Research***Coffee Break (9:30-10:00, Imperial Foyer)****Session 4A (October 28, 10:00-12:00)****KM Track:** Information Filtering and Recommender Systems (I)**Chair:** Arjen P. De Vries**Room:** Alberta

- Learning a User-Thread Alignment Manifold for Thread Recommendation in Online Forum, *Jun Zhao, Jiajun Bu, Chun Chen, Ziyu Guan and Can Wang*
- FacetCube: A Framework of Incorporating Prior Knowledge into Non-negative Tensor Factorization, *Yun Chi and Shenghuo Zhu*
- Travel Route Recommendation using Geotags in Photo Sharing Sites, *Takeshi Kurashima, Tomoharu Iwata, Go Irie and Ko Fujimura*
- Boosting Social Network Connectivity with Link Revival, *Yuan Tian, Qi He, Qiankun Zhao, Xingjie Liu and Wang-Chien Lee*
- Power in Unity: Forming Teams in Large-Scale Community Systems, *Aris Anagnostopoulos, Luca Becchetti, Carlos Castillo, Aristides Gionis and Stefano Leonardi*

**Session 4B (October 28, 10:00-12:00)****IR Track:** Social Networks and Text Mining**Chair:** Yi Chang**Room:** Quebec

- Who Should I Cite? Learning Literature Search Models from Citation Behavior, *Steven Bethard and Dan Jurafsky*
- A Structured Approach to Query Recommendation With Social Annotation Data, *Jiafeng Guo, Xueqi Cheng, Gu Xu and Huawei Shen*
- Using the Past to Score the Present: Extending Term Weighting Models with Revision History Analysis, *Ablimit Aji, Yu Wang, Eugene Agichtein and Evgeniy Gabrilovich*
- Bag-of-Word Pyramid and Multi-Scale Text Analysis, *Shuang-Hong Yang and Hongyuan Zha*
- Latent Interest-Topic Model: Finding the causal relationships behind dyadic data, *Noriaki Kawamae*

**Session 4C (October 28, 10:00-12:00)****Industry Track:** IR Applications**Chair:** Paul Bennett**Room:** British Columbia

- **Invited Talk:** The shift from search to matching, *Vasco Pedro, CEO and Co-founder, Bueda, Inc.*
- **PROSPECT:** A system for screening candidates for recruitment, *Amit Singh, Rose Catherine, Karthik Visweswariah, Vijil Chenthamarakshan and Nanda Kambhatla*
- Active Caching for Similarity Queries Based on Shared-Neighbor Information, *Michael Houle, Vincent Oria and Umar Qasim*

- Searching Consumer Image Collections Using Web-based Concept Expansion, *Mark Wood, Stacie Hibino and Alexander Loui*

**Session 4D (October 28, 10:00-12:00)****DB Track:** Information Retrieval in Databases**Chair:** Leif Azzopardi**Room:** Tudor 7 & 8

- Index Structures for Efficiently Searching Natural Language Text, *Pirooz Chubak and Davood Rafiei*
- Efficient Temporal Keyword Queries over Versioned Text, *Avishek Anand, Srikanta Bedathur, Klaus Berberich and Ralf Schenkel*
- Result-Size Estimation for Information-Retrieval Subqueries, *Guido Sautter, Klemens Böhm and Andranik Khachatryan*
- FACeTOR: Cost-Driven Exploration of Faceted Query Results, *Abhijith Kashyap, Vagelis Hristidis and Michalis Petropoulos*
- A Framework for Evaluating Database Keyword Search Strategies, *Joel Coffman and Alfred Weaver*

**Lunch (12:00-13:30, on your own)***[Participants will need to provide their own lunches]***Session 5A (October 28, 13:30-15:30)****KM Track:** Temporal, Spatial and Stream Data Mining**Chair:** Parke Godfrey**Room:** Alberta

- Network Growth and the Spectral Evolution Model, *Jérôme Kunegis, Damien Fay and Christian Bauckhage*
- Robust Automatic Detection of Craters in Planetary Images, *Wei Ding, Tomasz Stepinski, Lourenco Bandeira, Ricardo Vilalta, Youxi Wu, Zhenyu Lu and Tianyu Cao*
- You Are Where You Tweet: A Content-Based Approach to Geo-locating Twitter Users, *Zhiyuan Cheng, James Caverlee and Kyumin Lee*
- Partial Drift Detection Using a Rule Induction Framework, *Damon Sotoudeh and Aijun An*
- A Method for Discovering Components of Human Rituals from Streams of Sensor Data, *Bamis Athanasios, Jia Fang and Andreas Savvides*

**Session 5B (October 28, 13:30-15:30)****IR Track:** Filtering and Recommendation**Chair:** Ingmar Weber**Room:** Quebec

- Two-Tier Similarity Model for Story Link Detection, *Tadashi Nomoto*
- Selected new training documents to update user profile, *Abdulmohsen Algarni, Yuefeng Li and Yue Xu*
- Collaborative Filtering in Social Tagging Systems Based on Joint Item-Tag Recommendations, *Jing Peng, Daniel Zeng, Huimin Zhao and Fei-Yue Wang*
- Collaborative Future Event Recommendation, *einat minkov, Ben Charrow, Jonathan Ledlie, Seth Teller and Tommi Jaakkola*
- Hybrid Tag Recommendation for Social Annotation Systems, *Jonathan Gemmell, Thomas Schimoler, Bamshad Mobasher and Robin Burke*

**Session 5C (October 28, 13:30-15:30)****Industry Track:** Databases and OLAP**Chair:** Robert Warren**Room:** British Columbia

- **Invited Talk:** Turning Dark Clouds into Silver Linings, *Glenn Paulley, Director, Engineering, Sybase iAnywhere*
- XML Schema Computations: Schema Compatibility Testing and Subschema Extractions, *Thomas Lee and David Cheung*
- Visual Cube and On-Line Analytical Processing of Images, *Xin Jin, Liangliang Cao, Jiebo Luo, Bolin Ding, Xide Lin and Jiawei Han*
- Pattern Discovery for Large Mixed-Mode Databases, *Andrew K.C. Wong, Bin Wu, Gene P.K. Wu and Chan Keith*

**Session 5D (October 28, 13:30-15:30)****KM Track:** Data Pre- and Post- Processing**Chair:** Xue-Wen Chen**Room:** Tudor 7 & 8

- Constructing Classification Features using Minimal Predictive Patterns, *Iyad Batal and Milos Hauskrecht*
- RankSVR: Can Preference Data Help Regression? *Hwanjo Yu, Sungchul Kim and Seung-Hoon Na*
- Estimating Accuracy for Text Classification Tasks on Large Unlabeled Data, *Snigdha Chaturvedi, Tanveer Faruque, Venkata Subramaniam and Mukesh Mohania*
- A Probabilistic Topic-Connection Model for Automatic Image Annotation, *Xin Chen, Xiaohua Hu, Zhongna Zhou, Caimei Lu, Gail Rosen, Tingting He and E.K. Park*
- Orientation Distance-based Discriminative Feature Extraction for Multi-Class Classification, *Bo Liu, Yanshan Xiao and Longbing Cao*

**Coffee Break (15:30-16:00, Imperial Foyer)****Demo Session A: IR [I] (October 28, 16:00-17:30)****Chair:** Cathal Gurrin**Room:** Imperial

- EntityEngine: Answering Entity-Relationship Queries using Shallow Semantics, *Xiaonan Li, Chengkai Li and Cong Yu*
- Facetedpedia: Enabling Query-Dependent Faceted Search for Wikipedia, *Ning Yan, Chengkai Li, Senjuti B. Roy, Rakesh Ramegowda and Gautam Das*
- Discovering, Ranking and Annotating Cross-Document Relationships between Concepts, *Wei Jin and Xin Wu*
- TC-DCA: A System for Text Classification Based on Document's Content Allocation, *Wenbo Li, Le Sun, Zhenzhong Zhang, Xue Jiang and Weiru Zhang*
- XReal: An Interactive XML Keyword Searching, *Zhifeng Bao, Jiaheng Lu and Tok Wang Ling*

**Demo Session B: IR [II] (October 28, 16:00-17:30)****Chair:** Cathal Gurrin**Room:** Imperial

- EUI: An Embedded Engine for Understanding User Intents from Mobile Devices, *SangKeun Lee, JongWoo Ha, Jung-Hyun Lee, Kyu-Sun Shim and Namhoon Kim*

- WikiPop - Personalized Event Detection System Based on Wikipedia Page View Statistics, *Marek Ciglan and Kjetil Nørvåg*
- Summarizing biological literature with BioSumm, *Elena Baralis and Alessandro Fiori*
- Crawling the Web for Structured Documents, *Julián Urbano, Juan Llorens, Yorgos Andreadakis and Monica Marrero*
- Connecting the local and the online in information management, *Gabriella Kazaj, Natasa Milic-Frayling, Tim Haughton, Natalia Manola, Katerina Iatropoulou, Antonis Lempesis, Paolo Manghi and Marko Mikulicic*

**Demo Session C: DB (October 28, 16:00-17:30)**

**Chair:** Cathal Gurrin

**Room:** Imperial

- LiquidXML: Adaptive XML content redistribution, *Jesus Camacho-Rodriguez, Asterios Katsifodimos, Alexandra Roatis and Ioana Manolescu*
- Brown Dwarf: A P2P Data-Warehousing System, *Katerina Doka, Dimitrios Tsoumakos and Nectarios Koziris*
- RDFViewS: A Storage Tuning Wizard for RDF Applications, *Francois Goasdoue, Konstantinos Karanasos, Julien Leblay and Ioana Manolescu*
- SEQUEL: Query Completion via Pattern Mining on Multi-Column Structural Data, *Chuancong Gao, Qingyan Yang and Jianyong Wang*
- MI-WDIS: Web Data Integration System for Market Intelligence, *Zhongmin Yan, Qingzhong Li, Zhaohui Peng, Yongquan Dong, Yanhui Ding, Yongxin Zhang and Xiuxing Xu*

**Demo Session D: KM (October 28, 16:00-17:30)**

**Chair:** Cathal Gurrin

**Room:** Imperial

- FALCON: Seamless Access to Meeting Data from the Inbox and Calendar, *Jennifer Lai, Jie Lu, Mercan Topkara, Mukundan Desikan, Yi Guo, Ajinkya Kale, Nizar Lethif, Stephan Wissel, Peter Bjellerup and Karl Cama*
- WS-GraphMatching: A Web Service Tool for Graph Matching, *Qiong Cheng, Jinpeng Wei, Alexander Zelikovsky and Mitsunori Ogihara*
- SPAC: A Distributed; Peer-to-Peer, Secure and Privacy-aware Social Space, *Angela Bonifati, Hui Wang and Ruilin Liu*
- i-SEE: Integrated Stream Execution Environment over On-line Data Streams, *Se Jung Shin, Hong Kyu Park, Ho Jin Woo and Won Suk Lee*
- Exploring and Visualizing Academic Social Networks, *Veselin Ganev, Zhaochen Guo, Diego Serrano, Denilson Barbosa and Eleni Stroulia*

**Conference Banquet (October 28, 18:30-21:30)**

**Location:** Governor's Room, Liberty Grand, 25 British Columbia Road, Exhibition Place, Toronto.

**Transportation:** Buses will leave Royal York Hotel at 17:45 and 18:15.

Friday, October 29, 2010

**Keynote Talk (October 29, 8:30-9:30)**

**Chair:** Gareth Jones

**Room:** Imperial

**Title:** Use of Semantics in Real Life Applications

**Speaker:** Gregory Grefenstette, Exalead

**Coffee Break (9:30-10:00, Imperial Foyer)**

**Session 6A (October 29, 10:00-12:00)**

**KM Track:** Information Filtering and Recommender Systems (II)

**Chair:** Jie Tang

**Room:** Alberta

- Evaluating, Combining and Generalizing Recommendations with Prerequisites, *Aditya Parameswaran, Hector Garcia-Molina and Jeffrey Ullman*
- Automatically Suggesting Topics for Augmenting Text Documents, *Robert West, Doina Precup and Joelle Pineau*
- Detecting Product Review Spammers using Rating Behaviors, *Ee-Peng Lim, Bing Liu, Viet-An Nguyen, Nitin Jindal and Hady Lauw*
- Classical Music for Rock Fans?: Novel Recommendations for Expanding User Interests, *Nakatsuji Makoto, Yasuhiro Fujiwara, Akimichi Tanaka, Toshio Uchiyama, Ko Fujimura and Toru Ishida*
- Improving One-Class Collaborative Filtering by Incorporating Rich User Information, *Yanen Li, Jia Hu, Chengxiang Zhai and Ye Chen*

**Session 6B (October 29, 10:00-12:00)**

**IR Track:** User Modeling and Search Personalization

**Chair:** Noriko Kando

**Room:** Quebec

- Personalized Search by Tag-based User Profile and Resource Profile in Collaborative Tagging Systems, *Yi Cai and Qing Li*
- A Comparison of User and System Query Performance Predictions, *Claudia Hauff, Diane Kelly and Leif Azzopardi*
- The Anatomy of a Click: Modeling user behavior on web information systems, *Kunal Punera*
- Exploring Online Social Activities for Adaptive Search Personalization, *Qihua Wang and Hongxia Jin*
- Predicting Short-Term Interests Using Activity-Based Search Context, *Ryen White, Paul Bennett and Susan Dumais*

**Session 6C (October 29, 10:00-12:00)**

**Industry Track:** Web and Social Networks

**Chair:** Kevyn Collins-Thompson

**Room:** British Columbia

- **Invited Talk:** On-line Social Networks: Insight, Commercial Value and Computational Challenges, *Gordon Sun, Chief Scientist, Tencent Technology*
- Probabilistic First Pass Retrieval for Search Advertising: From Theory to Practice, *Hema Raghavan and Rukmini Iyer*

- Faceted Search and Browsing of Audio Content on Spoken Web, *Mamadou Diao, Sougata Mukherjea, Nitendra Rajput and Kundan Srivastava*
- Predicting Product Adoption in Large-Scale Social Networks, *Rushi Bhatt, Vineet Chaoji and Rajesh Parekh*

**Session 6D (October 29, 10:00-12:00)****IR Track:** Query Analysis and Feedback**Chair:** Elizabeth Liddy**Room:** Tudor 7 & 8

- Reverted Indexing for Feedback and Expansion, *Jeremy Pickens, Matthew Cooper and Gene Golovchinsky*
- Improving Verbose Queries using Subset Distribution, *Xiaobing Xue, Samuel Huston and Bruce Croft*
- A unified optimization framework for robust, risk-aware pseudo-relevance feedback, *Joshua Dillon and Kevyn Collins-Thompson*
- Ranking Related Entities: Components and Analyses, *Marc Bron, Krisztian Balog and Maarten de Rijke*

**Lunch (12:00-13:30)****Location:** Ballroom, 3<sup>rd</sup> floor**Keynote Talk (October 29, 13:30-14:30)****Chair:** Kevyn Collins-Thompson**Room:** Imperial**Title:** Temporal Dynamics and Information Retrieval**Speaker:** Susan Dumais, *Microsoft Research***Coffee Break (14:30-15:00, Imperial Foyer)****Session 7A (October 29, 15:00-17:00)****KM Track:** Semantic Techniques**Chair:** Aijun An**Room:** Alberta

- Semantic tags generation and retrieval for online advertising, *Mirizzi Roberto, Azzurra Ragone, Tommaso Di Noia and Eugenio Di Sciascio*
- MENTA: Inducing Multilingual Taxonomies from Wikipedia, *Gerard de Melo and Gerhard Weikum*
- Ontology Emergence from Folksonomies, *Kaipeng Liu, Binxing Fang and Weizhe Zhang*
- Multi-document Topic Segmentation, *Minwoo Jeong and Ivan Titov*
- Meta-Metadata: A Metadata Semantics Language for Collection Representation Applications, *Andruid Kerne, Yin Qu, Andrew Webb, Sashikanth Damaraju, Nic Lupfer and Abhinav Mathur*

**Session 7B (October 29, 15:00-17:00)****IR Track:** Web Search**Chair:** Jaap Kamps**Room:** Quebec

- Clickthrough-Based Translation Models for Web Search: from Word Models to Phrase Models, *Jianfeng Gao, Xiaodong He and Jian-Yun Nie*

- Temporal Query Log Profiling to Improve Web Search Ranking, *Alexander Kotov, Pranam Kolari, Lei Duan and Yi Chang*
- Improving Web Search Relevance and Freshness with Content Previews, *Siva Gurumurthy, Hang Su, Vasileios Kandylas and Vidhyashankar Venkataraman*
- Organizing Query Completions for Web Search, *Alpa Jain and Gilad Mishne*
- Selectively Diversifying Web Search Results, *Rodrygo Santos, Craig Macdonald and Iadh Ounis*

**Session 7C (October 29, 15:00-17:00)****Industry Track:** Text Mining and Analytics**Chair:** Gregory Grefenstette**Room:** British Columbia

- **Invited Talk:** Digital Advertising: Personalization, Personalization, and Personalization, *James Shanahan, Independant Consultant, Church and Duncan Group, Inc.*
- Building Re-usable Dictionary Repositories for Real-world Text Mining, *Shantanu Godbole, Indrajit Bhattacharya, Ajay Gupta and Ashish Verma*
- OpinionIt: A Text Mining System for Cross-lingual Opinion Analysis, *Honglei Guo and Huijia Zhu*
- Hierarchical Service Analytics for Improving Productivity in an Enterprise Service Center, *Chunye Wang, Ram Akella and Srikant Ramachandran*

**Session 7D (October 29, 15:00-17:00)****IR Track:** Scalability and Efficiency**Chair:** Frank Tompa**Room:** Tudor 7 & 8

- VSEncoding: Efficient Coding and Fast Decoding of Integer Lists via Dynamic Programming, *Rossano Venturini and Fabrizio Silvestri*
- Efficient Term Proximity Search with Term-Pair Indexes, *Hao Yan, Shuming Shi, Fan Zhang, torsten suel and Ji-Rong Wen*
- Improved Index Compression Techniques for Versioned Document Collections, *Jinru He, Junyuan Zeng, Torsten Suel*
- Building Efficient Multi-Threaded Search Nodes, *Carolina Bonacic, Carlos Garcia, Marin Mauricio, Manuel Prieto-Matias and Francisco Tirado*
- Real Time Memory Efficient Data Redundancy Removal Algorithm, *Ankur Narang, Souvik Bhattacharjee and Vikas Garg*

## CIKM'10 Posters

October 27, 12:00 – 21:00 (*Imperial Room*)

### DB Track

DB1	Search-Log Anonymization and Advertisement: Are They Mutually Exclusive?	Thorben Burghardt, Klemens Bohm, Achim Guttman, Christopher Clifton
DB2	Automated Interaction in Social Networks with Datalog	Royi Ronen, Oded Shmueli
DB3	A Data Lineage Model for Distributed Sub-image Processing	Mwebaze Johnson, John McFarland, Danny Boxhoorn, Edwin Valentine
DB4	Open User Schema Guided Evaluation of Streaming RDF Queries	Zhihong Chong, Qi Guilin, Weiwei Ni, Hu Shu, Zhou Aoying
DB5	SUMMA: Subgraph Matching in Massive Graphs	Shijie Zhang, Shirong Li, Jiong Yang
DB6	Automatically Weighting Tags in XML Collection	Dexi Liu, Changxuan Wan, Lei Chen, Xiping Liu
DB7	Skyline Query Processing for Uncertain Data	Mohamed Khalefa, Mohamed Mokbel, Justin Levandoski
DB8	FD-Buffer: A Buffer Manager for Databases on Flash Disks	Bingsheng He, sai tung on, Yinan Li, Ming Wu, Qiong Luo, Xu Jianliang
DB9	Efficiently Querying Archived Data using Hadoop	rajeev gupta, Himanshu Gupta, Ullas Nambiar, Mukesh Mohania
DB10	Evaluation of Top-k queries in Peer-to-Peer Networks using Threshold Algorithms	Ioannis Chrysakis, Constantinos Chalkidis, Dimitris Plexousakis
DB11	A Metamodel Approach to Flexible Semantic Web Service discovery	Roberto De Virgilio, Devis Bianchini
DB12	On Efficient Top-k Social Web Search	Peifeng Yin, Ken C.K. Lee, Wang-Chien Lee
DB13	Quantifying Uncertainty in Multi-Dimensional Cardinality Estimations	Andranik Khachatryan, Klemens Boehm
DB14	An AML-based Method for Entity Matching by Exploiting SoftFDs Synonyms on the Web	Zhixu Li, Laurianne Sitbon, Liwei Wang, Xiaofang Zhou, Xiaoyong Du
DB15	An Efficient Data-Centric Storage Scheme Considering Storage and Query Hot-Spots in Sensor Networks	Yonghun Park, Dongmin Seo, Jonghyeon Yun, Christopher T. Ryu, Jaesoo Yoo
DB16	Formal Approach and Automated Tool for Constructing Ontology from Object-oriented Database Model	Fu Zhang, Z. M. Ma, Gaofeng Fan Fan, Yu Wang

DB17	(k, P)-anonymity: Towards Pattern-Preserving Anonymity of Time-Series Data	Xuan Shang, Ke Chen, Lidan Shou, Gang Chen, Tianlei Hu
DB18	Concurrent Atomic Protocols for Making and Changing Decisions in Social Networks	Royi Ronen, Oded Shmueli
DB19	Extending Dictionary-based Entity Recognition to Tolerate Errors	Guoliang Li, Jianhua Feng
DB20	Yet Another Write-Optimized DBMS Layer for Flash-Based Solid State Storage	Hongchan Roh, Daewook Lee, Sanghyun Park
DB21	PrInt: A Provenance Model to Support Integration Processes	Bruno Tomazela, Carmem Satie Hara, Ricardo Rodrigues Ciferri, Cristina Ciferri
DB22	OLAP-based Query Recommendation	Carlos Garcia-Alvarado, Zhibo Chen, Carlos Ordonez
DB23	Selective Data Acquisition for Probabilistic K-NN Query	Yu-Chieh Lin, De-Nian Yang, Ming-Syan Chen
DB24	Support Elements in Graph Structured Schema Reintegration	Xun Sun, Pottinger Rachel, Michael Lawrence
DB25	BP-tree: An Efficient Index for Similarity Search in High-Dimensional Metric Spaces	Jurandy Almeida, Ricardo da Silva Torres, Neucimar Leite
DB26	Query Optimization for Ontology-Based Information Integration	Yingjie Li, Jeff Heflin
DB27	Aspect-Oriented Relations and Queries	Curtis Dyreson
DB28	A Hierarchical Approach to Reachability Query Answering in Very Large Graph Databases	Saikat Dey, Hasan Jamil
DB29	Computing the Top-k Maximal Answers in a Join of Ranked Lists	Yaron Kanza, Mirit Shalem
DB30	PruSM: A prudent Schema Matching strategy for Web Forms	Thanh Nguyen
DB31	Anonymizing Data with Quasi-Sensitive Attribute Values	Li Xiong

**IR Track**

IR1	Exploiting Site-Level Information to Improve Web Search	Andrei Broder, Evgeniy Gabrilovich, Vanja Josifovski, George Mavromatis, Donald Metzler, Jane Wang
IR2	Exploration-Exploitation Tradeoff in Interactive Relevance Feedback	Maryam Karimzadehgan, ChengXiang Zhai
IR3	Ranking Social Bookmarks Using Topic Models	Morgan Harvey, Mark Carman, Ian Ruthven
IR4	TABEX: Web-Scale Semi-Structured Table Census and Classification	Eric Crestan, Patrick Pantel
IR5	Challenges in Personalized Authority Flow Based Ranking of Social Media	Hassan Sayyadi, John Edmond, Vagelis Hristidis, Louiqa Raschid
IR6	A new mathematics retrieval system	Shahab Kamali, Frank Tompa
IR7	Explore Click Models for Search Ranking	Dong Wang, Weizhu Chen
IR8	Generating Advertising Keywords from Video Content	Michael Welch, Junghoo (John) Cho, Walter Chang
IR9	Finding web pages for children	Carsten Eickhoff, Pavel Serdyukov, Arjen de Vries
IR10	Rough Sets Based Reasoning and Pattern Mining for a Two-Stage Information Filtering System	Xujuan Zhou, Yuefeng Li, Peter Bruza, Yue Xu, Raymond Y.K. Lau
IR11	A Late Fusion Approach to Monolingual & Cross-lingual Document Re-ranking	Dong Zhou, Seamus Lawless, Jinming Min, Vincent Wade
IR12	Learning to Generate Summary as Structured Output	Hiroya Takamura, Manabu Okumura
IR13	Group Ranking with Application to Image Retrieval	Ou Wu
IR14	Co-Ranking: Unifying Explicit and Implicit Feedback for Collaborative Filtering	Nathan Liu
IR15	Directly Optimizing Evaluation Measures in Learning to Rank based on the Clonal Selection Algorithm	Qiang He, Jun Ma, Shuaiqiang Wang
IR16	Query Model Refinement Using Word Graphs	Yunping Huang, Le Sun, Jian-Yun Nie

IR17	Building Recommendation Systems using Peer-to-Peer Shared Content	Yuval Shavitt, Ela Weinsberg, Udi Weinsberg
IR18	Threshold Behavior of Incentives in Social Networks	Nagaraj Kota, Narahari Y.
IR19	Image Retrieval at Memory Edge: Known Image Search based on User-Drawn Sketches	Michael Springmann, Ihab Al Kabary, Heiko Schuldt
IR20	Utilizing Refinding for Personalized Information Retrieval	Sarah Tyler, Jian Want, Yi Zhang
IR21	User Behavior Driven Ranking without Editorial Judgments	Shihao Ji, Taesup Moon, Geroges Dupret, Ciya Liao, Zhaohui Zheng
IR22	Query Reformulation using Conditional Random Fields	Jitendra Ajmera, Hema Swetha Koppula, Krishna P. Leela
IR23	A Feature-Word-Topic model for image annotation	Cam-Tu Nguyen, Natsuda Kaothanthong, Xuan-Hieu Phan, Takeshi Tokuyama
IR24	Weighting Common Syntactic Structures for Natural Language based Information Retrieval	Liu Chang, Chang Liu, Epaminondas Kapetanios
IR25	Ranking with Auxiliary Data	Bo Long, Yi Chang, Zhaohui Zheng, Shuang-Hong Yang
IR26	Using Term Dependency According to Its Utility	Lixin Shi, Jian-Yun Nie
IR27	Modeling Reformulation Using Query Distributions	Xiaobing Xue, Bruce Croft, David Smith
IR28	Online learning for recency search ranking using real-time user feedback	Taesup Moon, Lihong Li, Wei Chu, Ciya Liao, Zhaohui Zheng, Yi Chang
IR29	Expert Identification in Community Question Answering: Exploring Question Selection Bias	Aditya Pal, Joseph Konstan
IR30	On the Relationship Between Novelty and Popularity of User-Generated Content	David Carmel, Haggai Roitman, Elad Yom-Tov
IR31	Focused Crawling Using Navigational Rank	Shicong Feng, Li Zhang, Yuhong Xiong and Conglei Yao
IR32	TAER: Time-Aware Entity Retrieval - Exploiting the Past to find Relevant Entities in News Articles	Gianluca Demartini, Malik Muhammad Saad Missen, Roi Blanco, Hugo Zaragoza

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| IR33 | Demographich Information Flows - How web queries move between user segments                        | Ingmar Weber, Alejandro Jaimes  |
| IR34 | Detecting Periodic Changes in Search Intentions in a Search Engine                                 | Masaya Murata, Hiroyuki Toda, Yumiko Matsuura, Ryoji Kataoka, Takayoshi Mochizuki             |
| IR35 | Recommendation Based On Object Typicality  | Yi Cai, Ho-fung Leung, Qing Li, Jie Tang, Juanzi Li   |
| IR36 | Selecting keywords for content based recommendation  | Christian Wartena, Wout Slakhorst, Martin Wibbels   |
| IR37 | Structural Annotation of Search Queries Using Pseudo-Relevance Feedback                            | Michael Bendersky, Bruce Croft, David Smith   |
| IR38 | Search as if You were in Your Home Town: Geographic Search by Regional Context and Dynamic Feature | Makoto Kato, Hiroaki Ohshima, Satoshi Oyama, Katsumi Tanaka                                   |
| IR39 | Topic Aspect Analysis for Multi-Document Summarization   | Dingding Wang, Shen Chao, Tao Li  |
| IR40 | Finding Unusual Review Patterns Using Unexpected Rules   | Nitin Jindal, Bing Liu, Ee-Peng Lim   |
| IR41 | Visual-Semantic Graphs: Using Queries to Reduce the Semantic Gap in Web Image Retrieval            | Barbara Poblete, Benjamin Bustos, Marcelo Mendoza, Juan Barrios                               |
| IR42 | Novel Local Features with Hybrid Sampling Technique for Image Retrieval                            | Leszek Kaliciak, Dawei Song, Nirmalie Wiratunga, Jeff Pan                                     |
| IR43 | Expected Browsing Utility for Web Search Evaluation  | Emine Yilmaz, Milad Shokouhi, Nick Craswell, Stephen Robertson                                |
| IR44 | Community-based Topic Modeling for Social Tagging  | Daifeng Li, Bing He, ding ying, Jie Tang, Juanzi Li, Zheng Qin, Tianxi Dong, Cassidy Sugimoto |
| IR45 | Discriminative Factored Prior Model for Personalized Content-Based Recommendation                  | Lanbo Zhang, Yi Zhang   |
| IR46 | Fast Query Expansion Using Approximations of Relevance Models                                      | Marc-Allen Cartright, James Allan, Victor Lavrenko, Andrew McGregor                           |
| IR47 | Mining Rules to Explain Activities in Videos   | Florez Omar, Curtis Dyreson   |
| IR48 | Online Stratified Sampling: Evaluating Classifiers at Web Scale                                    | Paul Bennett, Vitor Carvalho  |

IR49	Routing Questions to Appropriate Answerers in Community Question Answering Services	Baichuan Li, Irwin King
IR50	Learning to Rank with Groups	Yuan Lin, Hongfei Lin, Zheng Ye, Song Jin, Xiaoling Sun
IR51	Optimizing Unified Loss for Web Ranking Specialization	Li Fan, Xin Li, Jiang Bian, Zhaohui Zheng
IR52	Hypergraph-based Multilevel Matrix Approximation for Text Information Retrieval	Haw-ren Fang, Yousef Saad
IR53	A Peer-Selection Algorithm for Information Retrieval	Yosi Mass, Yehoshua Sagiv, Michal Shmueli-Scheuer
IR54	Exploring Domain-specific Term Weight in Archived Question Search	Zhao-Yan Ming, Tat-Seng Chua, Gao Cong
IR55	Multi-Information Fusion for Uncertain Semantic Representations of Videos	Bo Lu
IR56	A Topical Link Model for Community Discovery in Textual Interaction Graph	Guoqing Zheng, Jinwen Guo, Lichun Yang, Shengliang Xu, Shenghua Bao, Zhong Su, Dingyi Han, Yong Yu

### KM Track

KM1	Taxonomic Clustering of Web Service for Efficient Discovery	Sourish Dasgupta, Satish Bhat, Yugyung Lee
KM2	Active Learning in Parallel Universes	Nicolas Cebron, Michael Berthold
KM3	TAGME: on-the-fly annotation of short text fragments (by Wikipedia entities)	Paolo Ferragina, Ugo Scaiella
KM4	Outlier Ranking in Relevant Subspace Projections	Emmanuel Müller, Matthias Schiffer, Thomas Seidl
KM5	Understanding Retweeting Behaviors in Social Networks	Zi Yang, Jingyi Guo, Jie Tang, keke cai, Juanzi Li
KM6	Mapping Web Pages to Database Records via Link Paths	Weninger Tim, Fabio Fumarola, Jiawei Han, Donato Malerba
KM7	Personalized Recommender System Based on Item Taxonomy and Folksonomy	Huizhi Liang, Yue Xu, Yuefeng Li, Richi Nayak

KM8	Communication Motifs: A Tool to Characterize Social Communications	Qiankun Zhao, Yuan Tian, Qi He, Nuria Oliver, Ruoming Jin, Wang-Chien Lee
KM9	Improving Taxonomies for Large-Scale Hierarchical Classifiers of Web Documents	Kiyoshi Nitta
KM10	PTM: Probabilistic Topic Modeling for Mining Parallel Document Collections	Duo Zhang, Jimeng Sun, ChengXiang Zhai
KM11	Hierarchical Auto-Tagging: Organizing Q&A Knowledge for Everyone	Kyosuke Nishida, Ko Fujimura
KM12	Extracting Structured Information from Wikipedia Articles to Populate Infoboxes	Dustin Lange, Christoph Böhm, Felix Naumann
KM13	Automatic Metadata Extraction from Multilingual Enterprise Content	Melike Sah, Vincent Wade
KM14	Intelligent Sales Forecasting Engine using Genetic Algorithms	Vijayalakshmi Murlidhar, Bernard Menezes, Aniket Divecha, Rohit Menon, Kamal Mehta, Rajesh Ravindran
KM15	Identifying New Categories in Community Question Answering Archives: A Topic Modeling Approach	Yajie Miao
KM16	An Effective Approach for Mining Mobile User Habits	Happia Cao, Tengfei Bao, Qiang Yang, Enhong Chen, Jilei Tian
KM17	Mining Networks with Shared Items	Jun Sese, Mio Seki, Mutsumi Fukuzaki
KM18	Learning Sentiment Classification Model from Labeled Features	Yulan He
KM19	Embedding tolerance relations in formal concept analysis - An application in information fusion	Mehdi Kaytoue, Zainab Assaghir, Sergei O. Kuznetsov, Amedeo Napoli
KM20	Online Learning for Multi-Task Feature Selection	Haiqin Yang, Irwin King, Michael R. Lyu
KM21	Exploiting User Interests for Collaborative Filtering: Interests Expansion via Personalized Ranking	Liu Qi, Enhong Chen, Hui Xiong, Chris Ding
KM22	K-Farthest-Neighbors-Based Concept Boundary Determination for Support Vector Data Description	yanshan xiao, Bo Liu, Longbing Cao

KM23	Relational Feature Engineering of Natural Language Processing	Hamidreza Kobdani, Hinrich Schütze, Andre Burkovski, Stefanie Wiltrud Kessler, Gunther Heidemann
KM24	Transfer Incremental Learning for Pattern Classification	Zhenfeng Zhu, Xingquan Zhu, Yue-Fei Guo, Xiangyang Xue
KM25	Learning Ontology Resolution for Document Representation and its Applications in Text Mining	Lidong Bing, Bai Sun, Shan Jiang, Yan Zhang, Wai Lam
KM26	Supervised Identification and Linking of Concept Mentions to a Domain-Specific Ontology	Gabor Melli, Martin Ester
KM27	Enriching Context in Contextual Advertising	Pavan Kumar GM, Krishna P. Leela, Mehul Parsana, Sachin Garg
KM28	CasJoin: A Cascade Chain for Text Similarity Joins	Xiaoxun Zhang, Zhili Guo, Honglei Guo, Huijia Zhu, Zhong Su
KM29	Learning Naive Bayes Transfer Classifier through Class-wise Test Distribution Estimation	Jeong-Woo Son, Seong-Bae Park and Hyun-Je Song
KM30	TOP-EYE: Top-k Evolving Trajectory Outlier Detection	Yong Ge, Hui Xiong, Zhi-Hua Zhou
KM31	Multi Task Learning on Multiple Related Networks	Prakash Mandayam Comar, Pang-Ning Tan, Anil Kumar Jain
KM32	Building and Evaluating a Semantic Representation for Personal Information	Jinyoung Kim, Anton Bakalov, David Smith, Bruce Croft
KM33	Affinity-Driven Prediction and Ranking of Products in Online Product Review Sites	Hui Li, Sourav S Bhowmick, Aixin Sun
KM34	Topic-Driven Web Search Result Organization by Leveraging Wikipedia Semantic Knowledge	Xianpei Han, Jun Zhao
KM35	Fast Dimension Reduction for Document Classification Based on Imprecise Spectrum Analysis	Guan Hu, Bin Xiao, Jingyu Zhou, Minyi Guo, Tao Yang
KM36	Manifold Ranking with Sink Points for Update Summarization	Pan Du, Jiafeng Guo, Jin Zhang, Xueqi Cheng

KM37	Construction of a Sentimental Word Dictionary	Eduard Dragut, Clement Yu, Prasad Sistla, Weiyi Meng
KM38	Exploiting Novelty, Coverage and Balance for Topic-Focused Multi-Document Summarization	Xuan Li, Yi-dong Shen, Liang Du, Chenyan Xiong
KM39	Context Modeling for Ranking and Tagging Bursty Features in Text Streams	Xin Zhao, Jing Jiang, Jing He, Xiaoming Li, Hongfei Yan, Shan Dongdong
KM40	Argumentation versus Aggregation of Trust Evidence: an Experimental Comparison	Pierpaolo Dondio
KM41	Visualization and Clustering of Crowd Video Content in MPCA Subspace	Haiping Lu, How-Lung Eng, Myo Thida, Konstantinos Plataniotis
KM42	ANITA: A Narrative Interpretation of Taxonomies for their Adaptation to Text Collections	Mario Cataldi, K. Selcuk Candan, Maria Luisa Sapino
KM43	Yes We Can - Simplex Volume Maximization for Descriptive Web-Scale Matrix Factorization	Christian Thureau, Kristian Kersting, Christian Bauckhage
KM44	Incorporating Terminology Evolution for Query Translation in Text Retrieval with Association Rules	Kaluarachchi Amal, Aparna Varde
KM45	Exploiting Co-Occurrence and Information Quality Metrics to Recommend Tags in Web 2.0 Applications	Fabiano Belem, Eder Martins, Jussara Almeida, Marcos Andre Goncalves, Gisele Pappa
KM46	Elusive Vandalism Detection at Wikipedia: A Text Stability-based Approach	Qinyi Wu, Danesh Irani, Albert Larnder, Lakshmish Ramaswamy
KM47	Feature Subspace Transformations for Enhancing K-Means Clustering	Anirban Chatterjee, Sanjukta Bhowmick, Padma Raghavan
KM48	On Bootstrapping Recommender Systems	Yehuda Koren, Nadav Golbandi, Ronny Lempel
KM49	Using Wikipedia Categories for Compact Representations of Chemical Documents	Benjamin Köhncke, Wolf-Tilo Balke
KM50	Efficient Wikipedia-Based Semantic Interpreter by Exploiting Top-k Processing	Jong Wook Kim, Ashwin Kashyap, Dekai Li, Sandilya Bhamidipati
KM51	A study of rumor control strategies on social networks	Rudra Tripathy, Amitabha Bagchi, Sameep Mehta

KM52	Domain-Independent Entity Coreference in RDF Graphs	Dezhao Song, Jeff Heflin
KM53	Opinion Digger: An Unsupervised Opinion Miner from Unstructured Product Reviews	Samaneh Moghaddam, Martin Ester
KM54	Combining Link and Content for Collective Active Learning	Lixin Shi, Yuhang Zhao, Jie Tang
KM55	Classifying Sentiment in Microblogs: Is Brevity an Advantage?	Bermingham Adam, Alan Smeaton
KM56	Transient Crowd Discovery on the Real-Time Social Web	Krishna Kamath, James Caverlee
KM57	Discovery of Numerous Specific Topics via Term Co-Occurrence Analysis	Omid Madani, Jiye Yu
KM58	Digging for Knowledge with Information Extraction: A Case Study on Human Gene-Disease Associations	Markus Bundschus, Anna Bauer-Mehren, Volker Tresp, Hans-Peter Kriegel
KM59	Query Log based Personalization using Topic Models	Mark Carman, Morgan Harvey, Mark Baillie, Fabio Crestani
KM60	Choosing Your Own Adventure: Automatic Taxonomy Generation to Permit Many Paths	Xiaoguang Qi, Dawei Yin, Zhenzhen Xue, Brian Davison
KM61	Robust Prediction from Multiple Heterogeneous Data Sources with Partial Information	Mohammad Aziz, Chandan Reddy
KM62	Collaboration Analytics: Mining Work Patterns from Collaboration Activities	Qihua Wang, Hongxia Jin, Yan Liu
KM63	Adapting Cost-sensitive Learning for Reject Option	Jun Du, Eileen Ni, Charles Ling
KM64	SKIF: A Data Imputation Framework for Concept Drifting Data Streams	Zhang Peng, Xingquan Zhu, Jianlong Tan, Li Guo
KM65	Detecting controversial events in Twitter	Ana-Maria Popescu, Pennacchiotti Marco
KM66	Topic Detection and Organization of Mobile Text Messages	Ye Tian, Wendong Wang, Xueli Wang, Jinghai Rao, Canfeng Chen, Jian Ma
KM67	Unsupervised Public Health Event Detection for Epidemic Intelligence	Marco Fisichella, Avaré Stewart, Kerstin Denecke, Wolfgang Nejdl

KM68	Pattern Based Keyword Extraction for Contextual Advertising	Kushal Dave, Dr.Vasudev Varma
KM69	Mixture Model Label Propagation	Mingmin Chi
KM70	Regularization and Feature Selection for Networked Features	Hongliang Fei, Brian Quanz, Luke Huan

### Industry Track

IND1	BagBoo: A Scalable Hybrid Model Based on Bagging and Boosting	Alexey Gorodilov, Cliff Brunk, Dmitry Pavlov
IND2	Exploiting Sequential Relationships for Familial Classification	Lee Jensen, James Shanahan
IND3	Massive Structured Data Management Solution	Ullas Nambiar, Himanshu Gupta, rajeev gupta, Mukesh Mohania
IND4	Ranking of Evolving Stories Through Meta-Aggregation	Juozas Gordevicius, Francisco J. Estrada, Hyun Chul Lee, Periklis Andritsos, Johann Gamper
IND5	Injecting Domain Knowledge into a Granular Database Engine: A Position Paper	Dominik Slezak, Graham Toppin
IND6	Experiences with Using SVM-based Learning for Multi-Objective Ranking	Linh Nguyen, Wai Gen Yee, Ophir Frieder
IND7	Learning to Blend Rankings: a monotonic transformation to blend rankings from multiple domains	Zhenzhen Kou, Yi Chang, Zhaohui Zheng, Hongyuan Zha