

Contents

Efficiency

On Structures of Inverted Index for Query Processing Efficiency	3
<i>Xingshen Song, Xueping Zhang, Yuexiang Yang, Jicheng Quan, and Kun Jiang</i>	
Access Time Tradeoffs in Archive Compression	15
<i>Matthias Petri, Alistair Moffat, P.C. Nagesh, and Anthony Wirth</i>	
Large Scale Sentiment Analysis with Locality Sensitive BitHash.	29
<i>Wenhao Zhang, Jianqiu Ji, Jun Zhu, Hua Xu, and Bo Zhang</i>	

Graphs, Knowledge Bases and Taxonomies

Knowledge-Based Query Expansion in Real-Time Microblog Search.	43
<i>Chao Lv, Runwei Qiang, Feifan Fan, and Jianwu Yang</i>	
Enrichment of Academic Search Engine Results Pages by Citation-Based Graphs.	56
<i>Shuhei Shogen, Toshiyuki Shimizu, and Masatoshi Yoshikawa</i>	
Quality-Aware Review Selection Based on Product Feature Taxonomy	68
<i>Nan Tian, Yue Xu, Yuefeng Li, and Gabriella Pasi</i>	

Recommendations

An Author Subject Topic Model for Expert Recommendation.	83
<i>Haikun Mou, Qian Geng, Jian Jin, and Chong Chen</i>	
A Keyword Recommendation Method Using CorKeD Words and Its Application to Earth Science Data	96
<i>Youichi Ishida, Toshiyuki Shimizu, and Masatoshi Yoshikawa</i>	
Incorporating Distinct Opinions in Content Recommender System.	109
<i>Grace E. Lee, Keejun Han, and Mun Y. Yi</i>	

Twitter and Social Media

Detecting Automatically-Generated Arabic Tweets	123
<i>Hind Almerekhi and Tamer Elsayed</i>	

Improving Tweet Timeline Generation by Predicting Optimal Retrieval Depth.	135
<i>Maram Hasanain, Tamer Elsayed, and Walid Magdy</i>	

Abstract Venue Concept Detection from Location-Based Social Networks . . .	147
<i>Yi Liao, Shoaib Jameel, Wai Lam, and Xing Xie</i>	

Web Search

Snapboard: A Shared Space of Visual Snippets - A Study in Individual and Asynchronous Collaborative Web Search	161
<i>Teerapong Leelanupab, Hannarin Kruajiray, and Nont Kanungsukkasem</i>	

Improving Ranking and Robustness of Search Systems by Exploiting the Popularity of Documents	174
<i>Ashraf Bah and Ben Carterette</i>	

Heading-Aware Snippet Generation for Web Search	188
<i>Tomohiro Manabe and Keishi Tajima</i>	

Text Processing, Understanding and Categorization

Smoothing Temporal Difference for Text Categorization	203
<i>Fumiyo Fukumoto and Yoshimi Suzuki</i>	

Charset Encoding Detection of HTML Documents: A Practical Experience	215
<i>Shabanali Faghani, Ali Hadian, and Behrouz Minaei-Bidgoli</i>	

Structure Matters: Adoption of Structured Classification Approach in the Context of Cognitive Presence Classification	227
<i>Zak Waters, Vitomir Kovanović, Kirsty Kitto, and Dragan Gašević</i>	

Topics and Models

A Sequential Latent Topic-Based Readability Model for Domain-Specific Information Retrieval.	241
<i>Wenya Zhang, Dawei Song, Peng Zhang, Xiaozhao Zhao, and Yuexian Hou</i>	

Automatic Labelling of Topic Models Using Word Vectors and Letter Trigram Vectors	253
<i>Wanqiu Kou, Fang Li, and Timothy Baldwin</i>	

A Study of Collection-Based Features for Adapting the Balance Parameter in Pseudo Relevance Feedback	265
<i>Ye Meng, Peng Zhang, Dawei Song, and Yuexian Hou</i>	

Clustering

An MDL-Based Frequent Itemset Hierarchical Clustering Technique to Improve Query Search Results of an Individual Search Engine	279
<i>Diyah Puspitaningrum, Fauzi, Boko Susilo, Jeri Apriansyah Pagua, Aan Erlansari, Desi Andreswari, Rusdi Efendi, and I.S.W.B. Prasetya</i>	
Improving Clustering Quality by Automatic Text Summarization	292
<i>Mohsen Pourvali, Salvatore Orlando, and Mehrad Gharagozloo</i>	
Tweet Timeline Generation via Graph-Based Dynamic Greedy Clustering . . .	304
<i>Feifan Fan, Runwei Qiang, Chao Lv, Wayne Xin Zhao, and Jianwu Yang</i>	

Evaluation

Topic Set Size Design with the Evaluation Measures for Short Text Conversation	319
<i>Tetsuya Sakai, Lifeng Shang, Zhengdong Lu, and Hang Li</i>	
Towards Nuanced System Evaluation Based on Implicit User Expectations . . .	332
<i>Paul Thomas, Peter Bailey, Alistair Moffat, and Falk Scholer</i>	

Social Media and Recommendation

A Study of Visual and Semantic Similarity for Social Image Search Recommendation	347
<i>Yangjie Yao and Aixin Sun</i>	
Company Name Disambiguation in Tweets: A Two-Step Filtering Approach	358
<i>M. Atif Qureshi, Arjumand Younus, Colm O’Riordan, and Gabriella Pasi</i>	
Utilizing Word Embeddings for Result Diversification in Tweet Search	366
<i>Kezban Dilek Onal, Ismail Sengor Altingovde, and Pinar Karagoz</i>	

Short Papers

Displaying People with Old Addresses on a Map	381
<i>Gang Zhang and Harumi Murakami</i>	
A Query Expansion Approach Using Entity Distribution Based on Markov Random Fields	387
<i>Rui Li, Linxue Hao, Xiaozhao Zhao, Peng Zhang, Dawei Song, and Yuexian Hou</i>	

Analysis of Cyber Army's Behaviours on Web Forum for Elect Campaign . . .	394
<i>Man-Chun Ko and Hsin-Hsi Chen</i>	
Beyond tf-idf and Cosine Distance in Documents Dissimilarity Measure	400
<i>Sunil Aryal, Kai Ming Ting, Gholamreza Haffari, and Takashi Washio</i>	
Explorations of Cross-Disciplinary Term Similarity	407
<i>Hanif Sheikhabolkarim and Laurianne Sitbon</i>	
A Signature Approach to Patent Classification	413
<i>Dilesha Seneviratne, Shlomo Geva, Guido Zuccon, Gabriela Ferraro, Timothy Chappell, and Magali Meireles</i>	
The Impact of Using Combinatorial Optimisation for Static Caching of Posting Lists.	420
<i>Casper Petersen, Jakob Grue Simonsen, and Christina Lioma</i>	
Improving Difficult Queries by Leveraging Clusters in Term Graph	426
<i>Rajul Anand and Alexander Kotov</i>	
Demonstrations	
EEST: Entity-Driven Exploratory Search for Twitter	435
<i>Chao Lv, Runwei Qiang, Lili Yao, and Jianwu Yang</i>	
Oyster: A Tool for Fine-Grained Ontological Annotations in Free-Text . . .	440
<i>Hamed Tayebikhorami, Alejandro Metke-Jimenez, Anthony Nguyen, and Guido Zuccon</i>	
TopSig: A Scalable System for Hashing and Retrieving Document Signatures.	447
<i>Timothy Chappell and Shlomo Geva</i>	
Author Index	453

Information Retrieval Technology

11th Asia Information Retrieval Societies Conference,
AIRS 2015, Brisbane, QLD, Australia, December 2-4,
2015. Proceedings

Zuccon, G.; Geva, S.; Joho, H.; Scholer, F.; Sun, A.;
Zhang, P. (Eds.)

2015, XVIII, 454 p. 84 illus. in color., Softcover

ISBN: 978-3-319-28939-7