

Table of Contents

Recent Developments in Information Retrieval	1
<i>Cathal Gurrin, Yulan He, Gabriella Kazai, Udo Kruschwitz, Suzanne Little, Thomas Roelleke, Stefan Rüger, and Keith van Rijsbergen</i>	

Invited Talks

Web Search Futures: Personal, Collaborative, Social	10
<i>Barry Smyth</i>	
IR, NLP, and Visualization	11
<i>Hinrich Schütze</i>	
Image and Natural Language Processing for Multimedia Information Retrieval	12
<i>Mirella Lapata</i>	

Regular Papers

NLP and Text Mining

A Language Modeling Approach for Temporal Information Needs	13
<i>Klaus Berberich, Srikanta Bedathur, Omar Alonso, and Gerhard Weikum</i>	
Analyzing Information Retrieval Methods to Recover Broken Web Links	26
<i>Juan Martinez-Romo and Lourdes Araujo</i>	
Between Bags and Trees – Constructional Patterns in Text Used for Attitude Identification	38
<i>Jussi Karlgren, Gunnar Eriksson, Magnus Sahlgren, and Oscar Täckström</i>	
Improving Medical Information Retrieval with PICO Element Detection	50
<i>Florian Boudin, Lixin Shi, and Jian-Yun Nie</i>	
The Role of Query Sessions in Extracting Instance Attributes from Web Search Queries	62
<i>Marius Paşca, Enrique Alfonseca, Enrique Robledo-Arnuncio, Ricardo Martín-Brualla, and Keith Hall</i>	

Transliteration Equivalence Using Canonical Correlation Analysis 75
Raghavendra Udupa and Mitesh M. Khapra

Web IR

Explicit Search Result Diversification through Sub-queries 87
Rodrygo L.T. Santos, Jie Peng, Craig Macdonald, and Iadh Ounis

Interpreting User Inactivity on Search Results 100
Sofia Stamou and Efthimis N. Efthimiadis

Learning to Select a Ranking Function..... 114
Jie Peng, Craig Macdonald, and Iadh Ounis

Mining Anchor Text Trends for Retrieval 127
Na Dai and Brian D. Davison

Predicting Query Performance via Classification 140
Kevyn Collins-Thompson and Paul N. Bennett

Evaluation

A Case for Automatic System Evaluation 153
Claudia Hauff, Djoerd Hiemstra, Leif Azzopardi, and Franciska de Jong

Aggregation of Multiple Judgments for Evaluating Ordered Lists..... 166
Hyun Duk Kim, ChengXiang Zhai, and Jiawei Han

Evaluation and User Preference Study on Spatial Diversity 179
Jiayu Tang and Mark Sanderson

News Comments: Exploring, Modeling, and Online Prediction 191
Manos Tsagkias, Wouter Weerkamp, and Maarten de Rijke

Query Performance Prediction: Evaluation Contrasted with Effectiveness 204
Claudia Hauff, Leif Azzopardi, Djoerd Hiemstra, and Franciska de Jong

Multimedia IR

A Framework for Evaluating Automatic Image Annotation Algorithms 217
Konstantinos Athanasakos, Vassilios Stathopoulos, and Joemon M. Jose

BASIL: Effective Near-Duplicate Image Detection Using Gene Sequence Alignment	229
<i>Hung-sik Kim, Hau-Wen Chang, Jeongkyu Lee, and Dongwon Lee</i>	
Beyond Shot Retrieval: Searching for Broadcast News Items Using Language Models of Concepts	241
<i>Robin Aly, Aiden Doherty, Djoerd Hiemstra, and Alan Smeaton</i>	
Ranking Fusion Methods Applied to On-Line Handwriting Information Retrieval.....	253
<i>Sebastián Peña Saldarriaga, Emmanuel Morin, and Christian Viard-Gaudin</i>	

Distributed IR and Performance Issues

Improving Query Correctness Using Centralized Probably Approximately Correct (PAC) Search.....	265
<i>Ingemar Cox, Jianhan Zhu, Ruoxun Fu, and Lars Kai Hansen</i>	
Learning to Distribute Queries into Web Search Nodes.....	281
<i>Marcelo Mendoza, Mauricio Marín, Flavio Ferrarotti, and Barbara Poblete</i>	
Text Clustering for Peer-to-Peer Networks with Probabilistic Guarantees.....	293
<i>Odysseas Papapetrou, Wolf Siberski, and Norbert Fuhr</i>	
XML Retrieval Using Pruned Element-Index Files.....	306
<i>Ismail Sengor Altinogvde, Duygu Atilgan, and Özgür Ulusoy</i>	

IR Theory and Formal Models

Category-Based Query Modeling for Entity Search	319
<i>Krisztian Balog, Marc Bron, and Maarten de Rijke</i>	
Maximum Margin Ranking Algorithms for Information Retrieval.....	332
<i>Shivani Agarwal and Michael Collins</i>	
Query Aspect Based Term Weighting Regularization in Information Retrieval.....	344
<i>Wei Zheng and Hui Fang</i>	
Using the Quantum Probability Ranking Principle to Rank Interdependent Documents	357
<i>Guido Zuccon and Leif Azzopardi</i>	
Wikipedia-Based Semantic Smoothing for the Language Modeling Approach to Information Retrieval	370
<i>Xinhui Tu, Tingting He, Long Chen, Jing Luo, and Maoyuan Zhang</i>	

XVIII Table of Contents

Filtering Documents with Subspaces	615
<i>Benjamin Piwowarski, Ingo Frommholz, Yashar Moshfeghi, Mounia Lalmas, and Keith van Rijsbergen</i>	
User's Latent Interest-Based Collaborative Filtering	619
<i>Biyun Hu, Zhoujun Li, and Jun Wang</i>	
Evaluating the Potential of Explicit Phrases for Retrieval Quality	623
<i>Andreas Broschart, Klaus Berberich, and Ralf Schenkel</i>	
Developing a Test Collection for the Evaluation of Integrated Search . . .	627
<i>Marianne Lykke, Birger Larsen, Haakon Lund, and Peter Ingwersen</i>	
Retrieving Customary Web Language to Assist Writers	631
<i>Benno Stein, Martin Potthast, and Martin Trenkmann</i>	
Enriching Peer-to-Peer File Descriptors Using Association Rules on Query Logs	636
<i>Nazli Goharian, Ophir Frieder, Wai Gen Yee, and Jay Mundrawala</i>	
Cross-Language High Similarity Search: Why No Sub-linear Time Bound Can Be Expected	640
<i>Maik Anderka, Benno Stein, and Martin Potthast</i>	
Exploiting Result Consistency to Select Query Expansions for Spoken Content Retrieval	645
<i>Stevan Rudinac, Martha Larson, and Alan Hanjalic</i>	
Statistics of Online User-Generated Short Documents	649
<i>Giacomo Inches, Mark J. Carman, and Fabio Crestani</i>	
Mining Neighbors' Topicality to Better Control Authority Flow	653
<i>Na Dai, Brian D. Davison, and Yaoshuang Wang</i>	
Finding Wormholes with Flickr Geotags	658
<i>Maarten Clements, Pavel Serdyukov, Arjen P. de Vries, and Marcel J.T. Reinders</i>	
Enhancing N-Gram-Based Summary Evaluation Using Information Content and a Taxonomy	662
<i>Mijail Kabadjov, Josef Steinberger, Ralf Steinberger, Massimo Poesio, and Bruno Pouliquen</i>	

Demos

NEAT: News Exploration Along Time	667
<i>Omar Alonso, Klaus Berberich, Srikanta Bedathur, and Gerhard Weikum</i>	

Opinion Summarization of Web Comments	668
<i>Martin Potthast and Steffen Becker</i>	
EUROGENE: Multilingual Retrieval and Machine Translation Applied to Human Genetics	670
<i>Petr Knuth, Trevor Collins, Elsa Sklavounou, and Zdenek Zdrahal</i>	
NETSPEAK—Assisting Writers in Choosing Words	672
<i>Martin Potthast, Martin Trenkmann, and Benno Stein</i>	
A Data Analysis and Modelling Framework for the Evaluation of Interactive Information Retrieval	673
<i>Ralf Bierig, Michael Cole, Jacek Gwizdka, and Nicholas J. Belkin</i>	
Author Index	675