CIKM 2011
GLASGOW

20TH ACM CONFERENCE
ON INFORMATION AND
KNOWLEDGE MANAGEMENT

Crowne Plaza Hotel
Glasgow, Scotland
24-28 October 2011
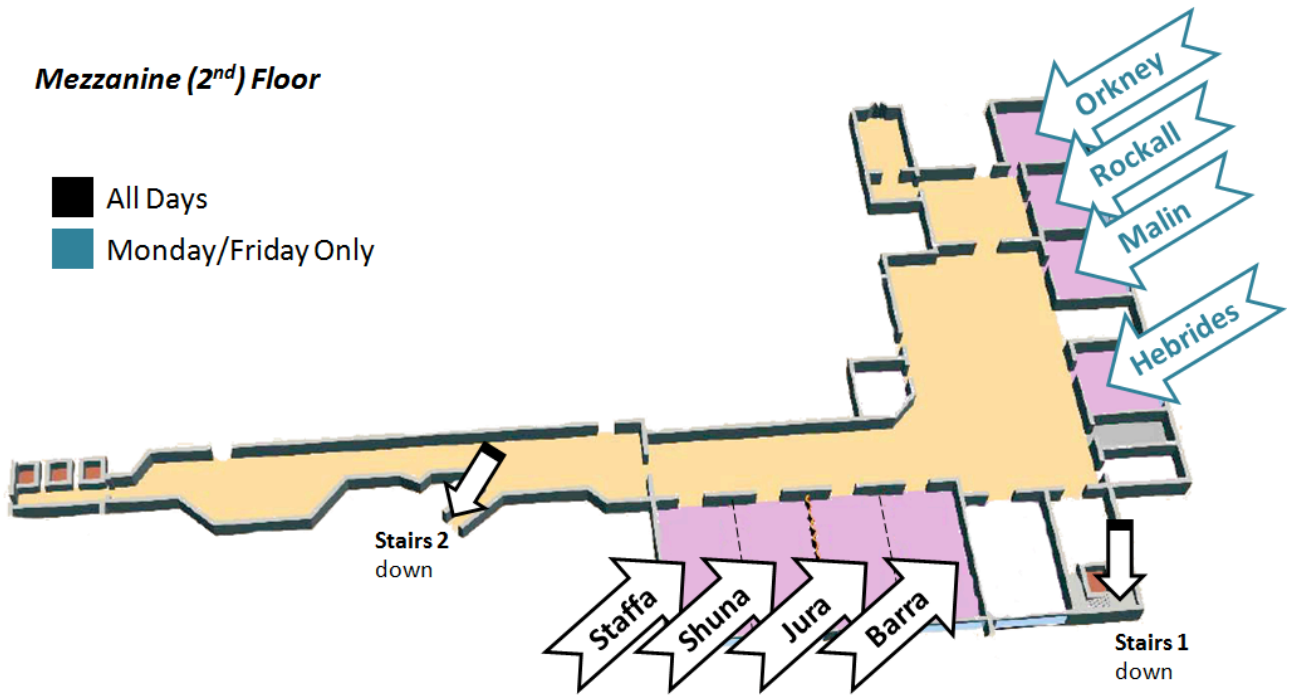
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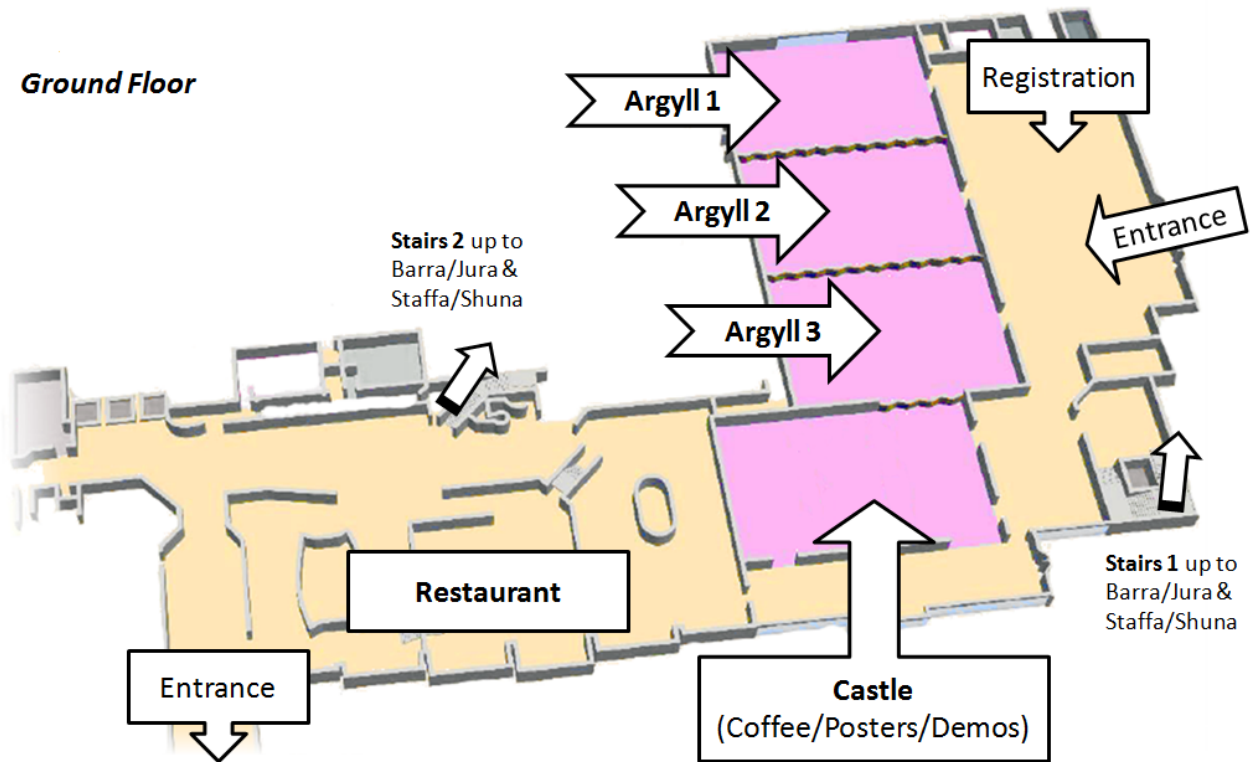www.cikm2011.org

Hotel plan

Mezzanine (2nd) Floor

■ All Days
■ Monday/Friday Only

Orkney

Rockall

Malin

Hebrides

Stairs 2
down

Staffa

Shuna

Jura

Barra

Stairs 1
down

Ground Floor

Argyll 1

Argyll 2

Argyll 3

Registration

Entrance

Stairs 2 up to
Barra/Jura &
Staffa/Shuna

Stairs 1 up to
Barra/Jura &
Staffa/Shuna

Restaurant

Entrance

Castle
(Coffee/Posters/Demos)

Congress Road

Programme at a glance

	Argyll 1	Argyll 2	Argyll 3	Barra & Jura	Staffa & Shuna	Castle
	Sunday 23rd October 2011					
19:00-21:00	Whisky Excursion Tour (Optional)					
	Monday 24th October 2011					
09:00-17:30	Tutorials and Workshops					
19:00-21:00	Conference Welcome Reception					
	Tuesday 25th October 2011					
08:10-08:30	Opening Ceremony					
08:30-09:15	Keynote - David Karger					
09:15-09:30	Demo Boasters 1					
09:30-10:00	Coffee break and Demos 1					
10:00-12:00	Retrieval Models	Classification & Evaluation	Techniques for the Web	Data on the Web	Social, Search, and Other Behaviour	
12:00-13:30	Lunch					
13:30-15:30	Exploiting Query Logs	Information Filtering	Sparse Data & Difficult Queries	Query Processing & Optimization	Topics & Events	
15:30-16:00	Coffee break					
16:00-18:00	Semantic Web & IR	Temporal, Stream & Spatial Information	Query Answering & Social Search	Privacy	Text Mining	IR posters
19:00-20:30	Civic Reception – Glasgow City Chambers					
	Wednesday 26th October 2011					
08:30-09:15	Keynote - Justin Zobel					
09:15-09:30	Demo Boasters 2					
09:30-10:00	Coffee break & Demos 2					
10:00-12:00	Machine Learning for Information Retrieval	Unsupervised & Semi-supervised Learning	Type & Structure	Distributed Data Management & Data Integration	Applications in Different Areas	
12:00-13:30	Lunch					
13:30-15:30	IR Implementation Techniques	Social Networks & Communities	Language Technology & IR	Keyword Search & Ranked Queries	Sentiments & Other Perspectives	
15:30-16:00	Coffee break					
16:00-17:40	Results in Context	When Search is Not Solitary: Social & Collaborative Search (Panel)	Image Retrieval	Evaluation & Analysis	Data Cleaning & Analysis	KM posters
19:00-23:00	Banquet – Kelvingrove Art Gallery					
	Thursday 27th October 2011					
08:30-09:15	Keynote - Maurizio Lenzerini					
09:15-09:30	Demo Boasters 3					
09:30-10:00	Coffee break and Demos 3					
10:00-12:00	Social Media	Classification & Clustering: Large-scale Statistical Techniques	Industry Event Session 1	Link Prediction	Graph Management & Queries	
12:00-13:30	Lunch					
13:30-15:30	Personalization & Advertising	Link, Graph & Relation Mining	Industry Event Session 2	Science, the Past, & the Future	Information Extraction & Entities	
15:30-16:00	Coffee break					
16:00-17:40	Algorithms	Queries, Questions & Tags Mining	Industry Event Session 3	Preparing, Mining and Evaluating with & for Different Views	Information Extraction & Semantic Techniques	DB posters
17:40-18:00	Closing Ceremony					
	Friday 28th October 2011					
09:00-17:30	Workshops					

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General Chairs' Welcome

On behalf of the organizing committee, it is our great pleasure to welcome you to the *20th ACM Conference on Information and Knowledge Management* in Glasgow!

Since its inception, the CIKM conference has provided a unique international forum for the presentation, discussion and dissemination of research findings in data management, information retrieval and knowledge management. The purpose of the conference is to identify challenging problems facing the development of future knowledge and information systems and to shape future research directions through the publication of high quality, applied and theoretical research findings. The conference has been a leading forum in which experts from academic, industry and the public sector gather to exchange ideas, research achievements and technical developments in multidisciplinary research areas.

CIKM is one of the world's most recognized conferences in the field. This year CIKM received 918 full paper submissions, 220 poster submissions, and 56 demonstration submissions. This is a great demonstration of the lively research areas that contribute to the CIKM area. In addition, CIKM 2011 will host 10 tutorials from leading researchers, 15 workshops on cutting-edge areas of research, a panel session on Social and Collaborative Search and a dedicated Industry Day featuring leading industrial practitioners. We are grateful to all authors who chose to submit their research to CIKM 2011 and are very excited by the final program.

CIKM values interdisciplinary research and we are proud to present three keynote speakers, Professor Justin Zobel, Professor Maurizio Lenzerini and Professor David Karger, all of whom will give presentations that cross discipline boundaries.

The program of CIKM 2011 represents a huge amount of effort on behalf of many people. The contributions to the technical program were selected by a large program committee headed by our three program chairs, Arjen de Vries, Bettina Berendt and Wenfei Fan. We are grateful to them for all their hard work in managing such a complex reviewing task and to their senior program committee members, program committee members and additional reviewers who freely gave their time, effort and intelligence to the difficult task of selecting which contributions would form the program. We are also very grateful to Fidel Cacheda, Matt Lease and Sara Hawkins, who monitored and managed the process of editing the proceedings to meet very tight production schedules.

We are also grateful to Gianni Amati who ran CIKM's first dedicated poster submission route; Omar Alonso who managed the demonstrations track and introduced demo boaster sessions into the program; Craig Macdonald who handled the very difficult job of organizing the workshop program; Jaap Kamps and Fabrizio Silvestri who solicited a great range of tutorials; Donald Metzler who was a great publicity chair; Leif Azzopardi for handling the student award scheme and student volunteers; Ryen White and Marius Pasca who were very active sponsorship chairs and whose hard work allowed us to award grants to several student attendees; Daniel Tunkelang and Tony Russell-Rose for organizing such an interesting Industry program; Jeremy Pickens for organizing an exciting panel session; David Carmel for organizing the Best Paper Awards committee. The local arrangements team has been superbly managed by Jon Ritchie, our local arrangements chair who has made a huge effort into every aspect of the conference. Finally, we value the efforts of Richard McCreadie (invitation letters) and Rodrygo Santos (website & social media).

We would like to express our appreciation to all our sponsors: EMC^2, Microsoft Research, Google, Yahoo! Research, SAP, Yandex, IBM Research, eBay Research Labs, Cambridge University Press, Springer, Taylor & Francis and CrossRef. Google generously provided travel support for East European attendees and Springer kindly sponsored the Best Paper Awards. All their generous sponsorship and support made this conference successful and possible. We would also like to thank the sponsoring SIGs, SIGIR and SIGWEB, and their respective chairs, James Allan (SIGIR), Ethan Munson and Simon Harper (SIGWEB) for their advice and support.

It is a great pleasure to be able to welcome you to CIKM 2011 in Glasgow. We hope that attendees find the technical program of CIKM 2011 to be interesting and productive and you enjoy CIKM 2011 and your stay in Glasgow.

Iadh Ounis
CIKM 2011 General Co-Chair
University of Glasgow

Ian Ruthven
CIKM 2011 General Co-Chair
University of Strathclyde

Program Committee Chairs Welcome

Welcome to the 20th ACM Conference on Information and Knowledge Management. Since 1992, CIKM has been successfully bringing together leading researchers from the database, information retrieval, and knowledge management communities. The purpose of the conference is to identify challenging problems facing the development of future knowledge and information systems, and to shape future research directions through the publication of high-quality research findings, both theoretical and applied. In CIKM 2011, we continued the tradition of promoting collaboration among the general areas of databases, information retrieval, and knowledge management. This year's call for papers attracted 918 submissions from Africa, the Americas, Asia, Australia, Europe, and the Middle East. The program committee accepted 134 submissions as full papers for oral presentation (15%), an additional 93 as short papers for oral presentation and 98 as poster presentations (a cumulative acceptance rate of 35%). We also accepted 21 demonstrations, 10 tutorials and 15 workshops. CIKM 2011 also organized the first direct call for poster submissions, resulting in 220 submissions and 66 poster acceptances.

We'd like to acknowledge everyone who made this technical program possible. First, we would like to thank the authors for providing the contents of the program: the conference would not be possible without your contributions. Our gratitude goes out to the program committee and external reviewers, who worked extremely hard in providing feedback on the submissions. The senior program committees deserve much recognition for shepherding the review process and for helping along the way. A very big "thank you" goes out to all the countless others who have contributed to making CIKM 2011 a success. Finally, we would like to thank all our corporate sponsors for their generous support.

We hope that you will find this program interesting and thought-provoking. Please enjoy the conference and the opportunity to network with friends and colleagues from around the world.

Bettina Berendt
CIKM 2011 KM Chair
Katholieke Universiteit
Leuven, Belgium

Arjen de Vries
CIKM 2011 IR Chair
Centrum Wiskunde
& Informatica, The
Netherlands

Wenfei Fan
CIKM 2011 DB Chair
University of
Edinburgh, UK

Conference Organization

General Conference Chairs:	Iadh Ounis *(University of Glasgow, UK)*
	Ian Ruthven *(University of Strathclyde, UK)*
Chair-at-Large:	Craig Macdonald *(University of Glasgow, UK)*
DB Track Program Chair:	Wenfei Fan *(University of Edinburgh, UK)*
IR Track Program Chair:	Arjen de Vries *(Centrum Wiskunde & Informatica, NL)*
KM Track Program Chair:	Bettina Berendt *(Katholieke Universiteit Leuven, BE)*
Workshops Chair:	Craig Macdonald *(University of Glasgow, UK)*
Posters Chair:	Gianni Amati *(FUB, IT)*
Tutorials Chairs:	Jaap Kamps *(University of Amsterdam, NL)*
	Fabrizio Silvestri *(ISTI-CNR, IT)*
Industry Event Chairs:	Daniel Tunkelang *(LinkedIn, US)*
	Tony Russell-Rose *(UXLabs and City University London, UK)*
Demonstrations Chair:	Omar Alonso *(Microsoft, US)*
Panel Chair:	Jeremy Pickens *(Catalyst Repository Systems, US)*
Proceedings Chairs:	Fidel Cacheda *(University of A Coruña, Spain)*
	Matt Lease *(University of Texas at Austin, US)*
Local Arrangements Chair:	Jon Ritchie *(University of Glasgow, UK)*
Travel Award Chair:	Leif Azzopardi *(University of Glasgow, UK)*
Publicity Chair:	Donald Metzler *(University of Southern California ,US)*
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	Ryen White *(Microsoft Research, US)*
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	Ophir Frieder *(Georgetown University, US)*
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	Alberto Laender *(Federal University of Minas Gerais, BR)*
	Charles Nicholas *(University of Maryland Baltimore County, US)*
	Calton Pu *(Georgia Tech, US)*
	Il Yeol Song *(Drexel Uinversity, US)*
	Philip S. Yu *(University of Illinois at Chicago, US)*

Keynotes

Keynote: Creating User Interfaces that Entice People to Manage Better Information

David Karger (Massachusetts Institute of Technology)

Room: Argyll
Time: 08:30 - 09:15, Tuesday 25th October 2011

Much research in information management begins by asking how to manage a given information corpus. But information management systems can only be as good as the information they manage. They struggle and often fail to correctly infer meaning from large blobs of text and the mysterious actions and demands of users. And they are useless for managing information that is never captured.

Instead of accepting the existing information as an immutable condition, I will argue that there are significant opportunities to help and motivate people to improve the quality and quantity of information their tools manage, and to exploit that better information to benefit its users.

The greatest challenge in doing so is developing systems, and particularly user interfaces, that overcome humans' perverse reluctance to invest small present-moment effort for large future payoffs. Effective systems must minimize the effort needed to record high-quality information and maximize the perceived future benefits of that information investment.

I will support these ideas with examples covering structured data management and presentation, notetaking, collaborative filtering, and social media.

Speaker's bio: David R. Karger is a Professor of Electrical Engineering and Computer Science at MIT's Computer Science and Artificial Intelligence Laboratory. David earned his Ph.D. at Stanford University in 1994 and has since contributed to many areas of computer science, publishing in algorithms, machine learning, information retrieval, personal information management, networking, peer to peer systems, coding theory, the semantic web, and human-computer interaction.

An ongoing interest has been to make it easier for people to create, find, organize, manipulate, and share information. He formed and leads the Haystack group to investigate the topic. A major theme has been to free people from the straightjacket of existing applications by giving them the ability to define and manage their own information schema and visualizations on the desktop and on the web. He co-led MIT's SIMILE project, a collaboration with MIT Libraries and the World Wide Web consortium developing Semantic-Web tools to improve the management and retrieval of information at the institutional level.

Keynote: Data, Health, and Algorithmics: Computational Challenges for Biomedicine

Justin Zobel (University of Melbourne)

Room: Argyll

Time: 08:30 - 09:15, Wednesday 26th October 2011

In the decade following the completion of the Human Genome Project in 2000, the cost of sequencing DNA fell by a factor of around a million, and continues to fall. Such sequencing is now a standard, ubiquitous tool for biomedical research, leading to widespread production of massive quantities of genetic data. Applications in clinical health include precise diagnosis of infection and disease, lifestyle management, and development of highly specific treatments - disruptive innovations that may drastically change medicine. Making use of this data involves a range of different kinds of analysis, such as identification of organisms, identification of which genes are active in a particular tissue, and assembly and annotation of the complete genomic sequence of an individual. Other biomedical technologies, from implants to imaging, are producing similarly vast quantities of data, opening further opportunities.

However, the volume and complexity of the data produced by these technologies presents a severe computational challenge. For example, a hundred gigabytes or more of sequencing data is required to construct the genome of a human individual, to monitor genomic changes in a cancer, to quantify activity within a cell, or to map the bacteria in a sample; and, currently, much of the analysis must be undertaken on large-memory clusters or supercomputers, an approach that greatly limits possible clinical uses. Breakthroughs in methods for search, storage, and analysis are required to keep pace with the flow of data, and to make use of the changes in biomedical knowledge that these technologies are creating. This keynote is an overview of some of these technologies and the new computational obstacles they have engendered, and reviews examples of algorithmic innovations and approaches currently being explored. These illustrate both the kinds of solutions that are required and the challenges that must be addressed to allow this abundant data to be fully exploited.

Speaker's bio: Justin Zobel is Professor of Computational Bioinformatics in the University of Melbourne's Department of Computer Science & Software Engineering, and leads the Computing for Life Sciences activities within National ICT Australia's Victorian Research Laboratory. Professor Zobel received his PhD from the University of Melbourne and for many years was based at RMIT University, where he led the Search Engine group. In the research community, Professor Zobel is best known for his role in the development of algorithms for efficient text retrieval, which underpin applications such as search engines deployed on the web. His research areas include search, bioinformatics, fundamental algorithms and data structures, compression, and research methods. He is an Editor-in-Chief of the International Journal of Information Retrieval, and an associate editor of ACM Transactions on Information Systems, Information Processing & Management, and IEEE Transactions on Knowledge and Data Engineering.

Keynote: Ontology-based Data Management

Maurizio Lenzerini (Università di Roma La Sapienza)

Room: Argyll
Time: 08:30 - 09:15, Thursday 27th October 2011

Ontology-based data management aims at accessing and using data by means of a conceptual representation of the domain of interest in the underlying information system. Although this new paradigm provides several interesting features, and many of them have been already proved effective in managing complex information systems, several important issues remain open, and constitute stimulating challenges for the research community. In this talk we first provide an introduction to Ontology-based data management, illustrating the main ideas and techniques for using an ontology to access the data layer of an information system, and then we discuss several important issues that are still the subject of extensive investigations, including the need of inconsistency tolerant query answering methods, and the need of supporting update operations expressed over the ontology.

Speaker's bio: Maurizio Lenzerini is a Professor in Computer Science at Università di Roma La Sapienza. He is conducting research in data management, knowledge representation and reasoning, information integration, and service-oriented computing. He is the author of more than 250 publications in international conferences and journals, and has been invited speaker in many international conferences. He is currently the Chair of the Executive Committee of the ACM Symposium of Principles of Database Systems. He is a Fellow of the European Coordinating Committee for Artificial Intelligence (ECCAI), a Fellow of the Association for Computing Machinery (ACM), and the recipient of several research awards, including an IBM University Shared Research Award, and an IBM Faculty Award.

Industry Event

Thursday 27th October 2011

Time	Title	Speaker
Session 1		
10:00 - 10:40	Why Recall Matters	Stephen Robertson (Microsoft Research)
10:40 - 11:20	Freebase - A Rosetta Stone for Entities	John Giannandrea (Google)
11:20 - 12:00	Experiences Evolving a New Analytical Platform: What Works and What's Missing	Jeff Hammerbacher (Cloudera)
Session 2		
13:30 - 14:00	Combining Advanced Technology and Human Expertise in Legal Research	Khalid Al-Kofahi (Thomson Reuters)
14:00 - 14:30	Databus: A System for Timeline-Consistent Low-Latency Change Capture	Chavdar Botev (LinkedIn)
14:30 - 15:00	Large Memory Computers for In-Memory Enterprise Applications	Ben Greene (SAP)
15:00 - 15:30	Search Problems and Solutions in Higher Education	David Hawking (Funnelback)
Session 3		
16:00 - 16:30	Model-Driven Research in Social Computing	Ed Chi (Google)
16:30 - 17:00	Toward Deep Understanding of User Behavior on the Web	Vanja Josifovski (Yahoo! Research)
17:00 - 17:30	Improving Search Quality at Yandex: Current Challenges and Solutions	Ilya Segalovich (Yandex)

Session 1:

Room: Argyll 3

Time: 10:00 - 10:40, Thursday 27th October 2011
Topic: Why Recall Matters
Speaker: Stephen Robertson (Microsoft Research)

Stephen Robertson joined Microsoft Research Cambridge in April 1998. At Microsoft, he works with other IR researchers on core search processes such as term weighting, document scoring and ranking algorithms, combination of evidence from different sources, and with metrics and methods for evaluation and for optimisation. The grouping is part of a group called Online Services and Advertising, and works closely with product groups to transfer ideas and techniques. In 1998, he was awarded the Tony Kent STRIX award by the Institute of Information Scientists. In 2000, he was awarded the Salton Award by ACM SIGIR. He is the author, jointly with Karen Sparck Jones, of a probabilistic theory of information retrieval, which has been moderately influential. A further development of that model, with Stephen Walker, led to the term weighting and document ranking function known as Okapi BM25, which is used in many experimental text retrieval systems. Prior to joining Microsoft, he was at City University London, where he retains a position as Professor Emeritus in the Department of Information Science.

Time: 10:40 - 11:20, Thursday 27th October 2011
Topic: Freebase - A Rosetta Stone for Entities
Speaker: John Giannandrea (Google)

John Giannandrea leads the Freebase project, an open database of knowledge that anyone can contribute to. Freebase was created by Metaweb Technologies, which John founded and which was acquired by Google in 2010. Prior to Metaweb, John co-founded Tellme Networks and was the chief technologist of Netscape's browser group where he contributed to many industry standards including HTML, HTTP, SSL, Java and RDF. John is originally from Scotland and graduated from Strathclyde University, Glasgow.

Time: 11:20 - 12:00, Thursday 27th October 2011
Topic: Experiences Evolving a New Analytical Platform: What Works and What's Missing
Speaker: Jeff Hammerbacher (Cloudera)
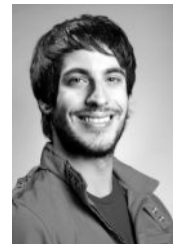
Jeff Hammerbacher is a founder and the Chief Scientist of Cloudera. Jeff was an Entrepreneur in Residence at Accel Partners immediately prior to founding Cloudera. Before Accel, he conceived, built, and led the Data team at Facebook. The Data team was responsible for driving many of the applications of statistics and machine learning at Facebook, as well as building out the infrastructure to support these tasks for massive data sets. The Data team produced open source projects such as Hive and Cassandra and their work was recognized at conferences such as CHI, ICWSM, SIGMOD, and VLDB. Before joining Facebook, Jeff was a quantitative analyst on Wall Street. Jeff earned his Bachelor's Degree in Mathematics from Harvard University. He recently served as a Contributing Editor for O'Reilly's "Beautiful Data" and currently serves as a Director of Sage Bionetworks.

Session 2:

Room: Argyll 3

Time: 13:30 - 14:00, Thursday 27th October 2011
Topic: Combining Advanced Technology and Human Expertise in Legal Research
Speaker: Khalid Al-Kofahi (Thomson Reuters)

Khalid Al-Kofahi is vice president of research at Thomson Reuters R&D and has been a member of the research team at Thomson Reuters since 1995. Khalid's primary responsibilities include managing the group research portfolio, collaborating with business and technology partners on the development of new products, providing technical consulting on relevant technologies, and the design and development of large-scale information technology solutions for the professional markets. Khalid's research interests include information retrieval, document classification, recommender systems, natural language processing, information extraction and computer vision. Khalid holds a a Ph.D. from Rensselaer Polytechnic Institute, U.S.; a M.S. from Rochester Institute of Technology, U.S., both in Computer Engineering; and a B.S. in Electrical Engineering from Jordan University of Science and Technology, Jordan.

Time: 14:00 - 14:30, Thursday 27th October 2011
Topic: Databus: A System for Timeline-Consistent Low-Latency Change Capture
Speaker: Chavdar Botev (LinkedIn)

Chavdar Botev is a principal software engineer at LinkedIn working on online data processing. He is the tech lead for the Databus project, LinkedIn's proprietary system for timeline-consistent low-latency change capture. Databus enjoys a wide-spread use in search and graph online index maintenance, replication, cache invalidation, view materialization. Prior to that, Chavdar worked in the display advertising group at Yahoo! as part of the RightMedia online ad exchange helping process billions of transactions per day. Chavdar is originally from Bulgaria and has a master's degree from Cornell University where he focused on semi-structured search and data processing. He was one of the original editors of the W3C XQuery and XPath Full Text standard.

Time: 14:30 - 15:00, Thursday 27th October 2011
Topic: Large Memory Computers for In-Memory Enterprise Applications
Speaker: Ben Greene (SAP)

Ben Greene is the Director of SAP Research Belfast. In this role he is responsible for coordinating the work of SAP Research in Belfast with that of the other Research Centres and aligning the research work with the business goals of SAP. The research focus of SAP Research Belfast are in the areas Technology Infrastructure and Business Intelligence. Ben received an MEng and PhD in Electrical & Electronic Engineering at Queen's University Belfast. Thereafter he relocated to England to take up a Systems Engineer role at EADS Astrium. He became a Principal Engineer in the Earth Observation, Science and Navigation Division of EADS Astrium responsible for R&D into the next generation processing platforms. In this role his responsibilities included linking Astrium and European R&D to upcoming missions such as ExoMars Rover.

Time: 15:00 - 15:30, Thursday 27th October 2011

Topic: Search Problems and Solutions in Higher Education

Speaker: David Hawking (Funnelback)

David Hawking is Chief Scientist at the internet and enterprise search company Funnelback (funnelback.com), a CSIRO spinoff based in Canberra, Australia. Funnelback search technology has won a number of awards and now supports hundreds of customers in Australia, Canada, New Zealand and the UK, mostly in government, education, and finance. David is also an adjunct professor at the Australian National University where he supervises a number of PhD students. He has authored around a hundred publications in the Information Retrieval area (see david-hawking.net) and twice served as SIGIR program chair. He was Web Track coordinator at TREC from 1997-2004. In this role he was responsible for the creation and distribution of text retrieval benchmark collections still in widespread use. He holds an honorary doctorate from the University of Neuchâtel (Switzerland) and the Chris Wallace award (Australasia) for computer science research.

Session 3:

Room: Argyll 3

Time: 16:00 - 16:30, Thursday 27th October 2011

Topic: Model-Driven Research in Social Computing

Speaker: Ed Chi (Google)

Ed H. Chi is a Staff Research Scientist at Google. Until very recently, he was the Area Manager and a Principal Scientist at Palo Alto Research Center's Augmented Social Cognition Group. He led the group in understanding how Web2.0 and Social Computing systems help groups of people to remember, think and reason. Ed completed his three degrees (B.S., M.S., and Ph.D.) in 6.5 years from University of Minnesota, and has been doing research on user interface software systems since 1993. He has been featured and quoted in the press, including the Economist, Time Magazine, LA Times, and the Associated Press. With 20 patents and over 90 research articles, his most well-known past project is the study of Information Scent --- understanding how users navigate and understand the Web and information environments. He also led a group of researchers at PARC to understand the underlying mechanisms in online social systems such as Wikipedia and social tagging sites. He has also worked on information visualization, computational molecular biology, ubicomp, and recommendation/search engines, and has won awards for both teaching and research. In his spare time, Ed is an avid Taekwondo martial artist, photographer, and snowboarder.

Time: 16:30 - 17:00, Thursday 27th October 2011
Topic: Toward Deep Understanding of User Behavior on the Web
**Speaker:** Vanja Josifovski (Yahoo! Research)

Vanja Josifovski is a Sr. Director and Lead of the Computational Advertising Group at Yahoo! Research. He is currently working on developing novel techniques for display advertising targeting and ad exchange bidding. Previously, he has designed and built online textual ad platforms for sponsored search and contextual advertising scaling to billions of request per day. Even earlier, Vanja was at IBM Research working in the areas of enterprise search, XML, and federated database engines.

Time: 17:00 - 17:30
Topic: Improving Search Quality at Yandex: Current Challenges and Solutions
Speaker: Ilya Segalovich (Yandex)
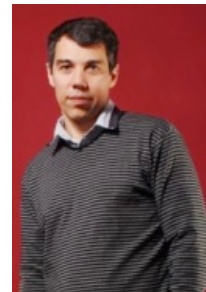
Ilya Segalovich is one of Yandex co-founders and has been Yandex Chief Technology Officer and a director since 2003. He began his career working on information retrieval technologies in 1990 at Arcadia Company, where he headed Arcadia's software team. From 1993 to 2000, he led the retrieval systems department for CompTek International. Mr. Segalovich received a degree in geophysics from the S. Ordzhonikidze Moscow Geologic Exploration Institute in 1986. He also took an active role in starting Russian research and scientific initiatives in information retrieval and computational linguistics.

Panel

Wednesday 26th October

When Search is Not Solitary: Perspectives on Social and Collaborative Search

Time: 16:00 - 17:40, Wednesday 26th October 2011
Room: Argyll 2

Abstract: In recent years, search has become a multi-person endeavor: recommender systems, social search, click-based implicit relevance feedback, collaborative search are just some of the buzzwords we've all become familiar with. But are these terms different manifestations of the same concept or are there fundamental differences that underlie them? In this panel we'll explore the pros and cons of various approaches. We'll take a collaborative approach to social search, or, perhaps, vice versa.

Panelists:

Ed Chi, Google

Ed H. Chi is a Research Scientist at Google, embedded in the Google+ project. Until very recently, he was the Area Manager and a Principal Scientist at Palo Alto Research Center'sAugmented Social Cognition Group. He led the group in understanding how Web2.0 and Social Computing systems help groups of people to remember, think and reason. Ed completed his three degrees (B.S., M.S., and Ph.D.) in 6.5 years from University of Minnesota, and has published 20 patents and over 90 research articles. He has been featured and quoted in the press, including the Economist, Time Magazine, LA Times, and the Associated Press. Having done research on user interface software systems since 1993, his most well-known past project is the study of Information Scent --- understanding how users navigate and understand the Web and information environments. He also led a group of researchers at PARC to understand the underlying mechanisms in online social systems such as social networks, Wikipedia and social tagging sites. He has also worked information visualization, computational molecular biology, ubicomp, and recommendation/search engines, and has won awards for both teaching and research. In his spare time, Ed is an avid Taekwondo martial artist, photographer, and snowboarder.

Gene Golovchinsky, FX Palo Alto Research Lab, Inc.

Gene Golovchinsky is a Sr. Research Scientist at FX Palo Alto Laboratory. His research interests include interaction design for information seeking, Human-Computer Information Retrieval (HCIR), collaborative search, dynamic hypertext, and pen-based computing. Gene received a PhD and a MASc in Human Factors from the University of Toronto, and a BS in Electrical Engineering from UCLA. Gene is a Senior Member of the ACM.

Meredith Ringel Morris, Microsoft Research

Meredith Ringel Morris is a research scientist in the Adaptive Systems & Interaction group at Microsoft Research. She is also an affiliate assistant professor of Computer Science & Engineering at the University of Washington. Dr. Morris's research area is human-computer interaction, with a particular emphasis on computer-supported cooperative work and social computing. She has published numerous technical articles and patents on multi-user interactive systems, and recently co-authored the book Collaborative Web Search: Who, What, Where, When, and Why? (Morgan & Claypool, 2010). Dr. Morris served as the co-chair of the technical program for CHI 2009, the ACM's premier conference on the topic of human-computer interac-tion. She was named one of 2008's 35 Innovators Under 35 by Technology Review, and one of 2009's 100 Notable Women in Seattle Technology by TechFlash. Dr. Morris earned a Ph.D. and M.S. in computer science from Stanford University, and an Sc.B. in computer science from Brown University.

Krishna Gummadi, Max Planck Institute for Software Systems

Krishna Gummadi leads the Networked Systems research group at the Max Planck Institute for Software Systems (MPI-SWS) in Germany. He received his Ph.D. (2005) and M.S. (2002) degrees in Computer Science and Engineering from the University of Washington, Seattle. Krishna's research interests are in the measurement, analysis, design, and evaluation of complex Internet-scale systems. His current projects focus on enabling the social Web. Specifically, they include (a) understanding the structure and evolution of social network graphs, (b) understanding how content and information propagates through social networks, (c) leveraging social networks for building better information sharing systems (i.e., better search results and content recommendations as well as filtering unwanted communication and content), and (d) building scalable infrastructures for supporting social networking sites and their workloads. Krishna's work on online social networks, Internet access networks, and peer-to-peer systems has led to a number of widely cited papers. He also received best paper awards at OSDI, SIGCOMM IMW, and MMCN for his work on Internet measurements and peer-to-peer systems.

Main Conference Programme

Tuesday 25th October 2011

Retrieval Models

Time: 10:00-12:00, Tuesday 25th October 2011
Room: Argyll 1
Chair: Gianni Amati

- Lower-Bounding Term Frequency Normalization
  Yuanhua Lv, ChengXiang Zhai (University of Illinois at Urbana-Champaign)
- A Quasi-Synchronous Dependence Model for Information Retrieval
  Jae Hyun Park, W. Bruce Croft, David A. Smith (University of Massachusetts Amherst)
- Improving Retrieval Accuracy of Difficult Queries through Generalizing Negative Document Language Models
  Maryam Karimzadehgan, ChengXiang Zhai (University of Illinois at Urbana-Champaign)
- S3K: Seeking Statement-Supporting top-K Witnesses
  Steffen Metzger, Shady Elbassuoni, Katja Hose (Max-Planck-Institute for Informatics), Ralf Schenkel (Saarland University & Max-Planck-Institute for Informatics)
- Finding Relevant Information of Certain Types from Enterprise Data
  Xitong Liu, Hui Fang (University of Delaware), Cong-Lei Yao, Min Wang (HP Labs)

Classification and Evaluation

Time: 10:00-12:00, Tuesday 25th October 2011
Room: Argyll 2
Chair: Nicolas Garcia Pedrajas

- Semi-Supervised SVMs for Classification with Unknown Class Proportions and a Small Labeled Dataset
  Sathiya Keerthi Selvaraj (Yahoo!), Bigyan Bhar (Indian Institute of Science), Sundararajan Sellamanickam (Yahoo!), Shirish Shevade (Indian Institute of Science)
- A Pairwise Ranking Based Approach to Learning with Positive and Unlabeled Examples
  Sundararajan Sellamanickam (Yahoo! Labs), Priyanka Garg (The Chinese University of Hong Kong), Sathiya Keerthi Selvaraj (Yahoo! Labs)
- Robust Nonnegative Matrix Factorization using L21-norm
  Deguang Kong, Chris Ding (University of Texas at Arlington), Heng Huang (Dept. of Computer Science and Engineering)
- TAKES: A Fast Method to Select Features in the Kernel Space
  Ye Xu (Dartmouth College), Furao Shen (Nanjing University), Wei Ping (University of California Irvine), Jinxi Zhao (Nanjing University)
- Designing an Ensemble Classifier over Subspace Classifiers using Iterative Convergence Routine [SHORT]
  Bhanukiran Vinzamuri, Kamalakar Karlapalem (International Institute of Information Technology)

Techniques for the Web

Time: 10:00-12:00, Tuesday 25th October 2011
Room: Argyll 3
Chair: Patrick Gallinari

- Unsupervised Transactional Query Classification Based on Webpage Form Understanding
  Yuchen Liu (Tsinghua University), Xiaochuan Ni, Jian-Tao Sun, Zheng Chen (Microsoft Research Asia)
- Assigning Documents to Master Sites in Distributed Search
  Roi Blanco, B. Barla Cambazoglu, Flavio P. Junqueira, Ivan Kelly, Vincent Leroy (Yahoo! Research)
- Discovering URLs through User Feedback
  Xiao Bai, B. Barla Cambazoglu, Flavio P. Junqueira (Yahoo! Research)
- User Browsing Behavior-driven Web Crawling [SHORT]
  Minghai Liu (Peking University), Rui Cai (Microsoft Research Asia), Ming Zhang (Peking University), Lei Zhang (Microsoft Research Asia)
- Diversifying Search Results of Controversial Queries [SHORT]
  Mouna Kacimi, Johann Gamper (Free University of Bozen-Bolzano)
- Relevance Weighting using Within-document Term Statistics [SHORT]
  Kai Hui, Ben He, Tiejian Luo (Graduate University of Chinese Academy of Sciences), Bin Wang (Institute of Computing Technology)

Data on the Web

Time: 10:00-12:00, Tuesday 25th October 2011
Room: Barra & Jura
Chair: K. Selcuk Candan

- Estimating Selectivity for Joined RDF Triple Patterns
  Hai Huang, Chengfei Liu (Swinburne University of Technology)
- Efficient Resource Attribute Retrieval in RDF Triple Stores
  Andreas Brodt, Oliver Schiller, Bernhard Mitschang (Universität Stuttgart)
- Effective Stratification For Low Selectivity Queries on Deep Web Data Sources
  Fan Wang, Gagan Agrawal (The Ohio State University)
- Finding Information Nebula over Large Networks
  Lijun Chang, Jeffrey Xu Yu, Lu Qin, Yuanyuan Zhu (The Chinese University of Hong Kong), Haixun Wang (Microsoft Research Asia)
- Efficient Methods for Finding Influential Locations with Adaptive Grids
  Da Yan, Raymond Chi-Wing Wong, Wilfred Ng (The Hong Kong University of Science and Technology)

Social, Search, and Other Behaviour

Time: 10:00-12:00, Tuesday 25th October 2011
Room: Shuna & Staffa
Chair: David Carmel

- Learning to Target: What Works for Behavioral Targeting
  Sandeep Pandey, Mohamed Aly (Yahoo!), Abraham Bagherjeiran (ThinkersR.Us), Andrew Hatch (Yahoo!), Peter Ciccolo (Google), Adwait Ratnaparkhi (33Across), Martin Zinkevich (Yahoo!)
- Large-Scale Behavioral Targeting with a Social Twist
  Kun Liu, Lei Tang (Yahoo! Labs)
- Evolving Social Search Based on Bookmarks and Status Messages from Social Networks
  Bastian Karweg (Mobile Advertising GmbH), Christian Huetter, Klemens Boehm (Karlsruhe Institute of Technology)
- Social Ranking for Spoken Web Search [SHORT]
  Shrey Sahay, Nitendra Rajput (IBM Research), Niketan Pansare (Rice University)
- Effects of Search Success on Search Engine Re-Use [SHORT]
  Victor Hu (Stanford University), Maria Stone, Jan Pedersen, Ryen W White (Microsoft)

Exploiting Query Logs

Time: 13:30-15:30, Tuesday 25th October 2011
Room: Argyll 1
Chair: Fabrizio Silvestri

- Suggestion Set Utility Maximization Using Session Logs
  Umut Ozertem, Emre Velipasaoglu, Larry Lai (Yahoo! Labs)
- Improving Context-Aware Query Classification via Adaptive Self-training
  Minmin Chen (Washington University in Saint Louis), Jian-Tao Sun, Xiaochuan Ni (Microsoft Research Asia),
  Yixin Chen (Washington University in Saint Louis)
- A Task Level Metric for Measuring Web Search Satisfaction and its Application on
  Improving Relevance Estimation
  Ahmed Hassan, Yang Song (Microsoft Research), Li-wei He (Microsoft)
- Multi-view Random Walk Framework for Search Task Discovery from Click-through Log
  [SHORT]
  Jianwei Cui (Renmin University of China), Hongyan Liu (Tsinghua University), Jun Yan, Lei Ji (Microsoft
  Research Asia), Ruoming Jin (Kent State University), Jun He, Yingqin Gu (Renmin University of China),
  Zheng Chen (Microsoft Research Asia), Xiaoyong Du (Renmin University of China)
- Query Sampling for Learning Data Fusion [SHORT]
  Ting-Chu Lin, Pu-Jen Cheng (National Taiwan University, Taiwan)
- Query Session Detection as a Cascade [SHORT]
  Matthias Hagen, Benno Stein, Tino Rüb (Bauhaus-Universität Weimar)

Information Filtering

Time: 13:30-15:30, Tuesday 25th October 2011
Room: Argyll 2
Chair: Pável Calado

- Bayesian Latent Variable Models for Collaborative Item Rating Prediction
  Morgan Harvey (University of Erlangen), Mark J. Carman (Monash University), Ian Ruthven (Strathclyde
  University), Fabio Crestani (University of Lugano)
- Timing When to Buy
  Rakesh Agrawal, Samuel Ieong (Microsoft Research), Raja Velu (Syracuse University)
- Assisting Web Search Users by Destination Reachability
  Chi-Hoon Lee (Nokia Research Center), Alpa Jain, Larry Lai (Yahoo! Labs)
- Modeling Personalized Email Prioritization: Classification-based and Regression-based
  Approaches
  Shinjae Yoo (Brookhaven National Laboratory), Yiming Yang, Jaime Carbonell (Carnegie Mellon University)
- Diversification and Refinement in Collaborative Filtering Recommender [SHORT]
  Rubi Boim, Tova Milo, Slava Novgorodov (Tel-Aviv University)

Sparse Data and Difficult Queries

Time: 13:30-15:30, Tuesday 25th October 2011
Room: Argyll 3
Chair: Tetsuya Sakai

- Discovering Missing Click-through Query Language Information for Web Search
  Xing Yi, James Allan (University of Massachusetts, Amherst)
- Interactive Sense Feedback for Difficult Queries
  Alexander Kotov, ChengXiang Zhai (University of Illinois at Urbana-Champaign)
- Reranking Search Results for Sparse Queries
  Elif Aktolga, James Allan (University of Massachusetts Amherst)
- Searching Microblogs: Coping with Sparsity and Document Quality [SHORT]
  Nasir Naveed, Thomas Gottron, Jérôme Kunegis, Arifah Che Alhadi (University of Koblenz-Landau)
- Finding Images of Difficult Entities in the Long Tail [SHORT]
  Bilyana Taneva (Max-Planck Institute for Informatics), Mouna Kacimi (Free University of Bozen-Bolzano),
  Gerhard Weikum (Max-Planck Institute for Informatics)

Learning to Rank User Intent [SHORT]
Giorgos Giannopoulos (NTU Athens & IMIS Intitute, 'Athena' Research Center), Ulf Brefeld (Yahoo! Research), Theodore Dalamagas (IMIS Intitute, 'Athena' Research Center), Timos Sellis (NTU Athens & IMIS Intitute, 'Athena' Research Center)

Query Processing and Optimization

Time: 13:30-15:30, Tuesday 25th October 2011
Room: Barra & Jura
Chair: Alberto Laender

- Semi-Indexing Semi-Structured Data in Tiny Space
  Giuseppe Ottaviano, Roberto Grossi (Università di Pisa)
- Evaluation of Set-based Queries with AggregationConstraints
  Quoc Trung Tran, Chee-Yong Chan, Guoping Wang (National University of Singapore)
- Index Structures and Top-k Join Algorithms for Native Keyword Search Databases
  Günter Ladwig, Thanh Tran (Karlsruhe Institute of Technology)
- Optimized Processing of Multiple Aggregate Continuous Queries
  Shenoda Guirguis (University of Pittsburgh), Mohamed Sharaf (The University of Queensland), Panos K Chrysanthis, Alexandros Labrinidis (University of Pittsburgh)
- XQuery Optimization Based on Program Slicing
  Jesus M. Almendros-Jimenez (Universidad de Almeria), Josep Silva, Salvador Tamarit (Universidad Politecnica de Valencia)

Topics and Events

Time: 13:30-15:30, Tuesday 25th October 2011
Room: Shuna & Staffa
Chair: Ram Akella

- Emerging Topic Detection using Dictionary Learning
  Shiva Prasad Kasiviswanathan, Prem Melville (IBM TJ Watson Research), Arindam Banerjee (University of Minnesota), Vikas Sindhwani (IBM TJ Watson Research)
- Focusing on Novelty: A Crawling Strategy to Build Diverse Language Models
  Luciano Barbosa, Srinivas Bangalore (AT&T Labs Research)
- Natural Event Summarization
  Yexi Jiang (Florida International University), Chang-shing Perng (IBM T.J Watson Research Center), Tao Li (Florida International University)
- Transferring Topical Knowledge from Auxiliary Long Texts for Short Text Clustering
  Ou Jin (Shanghai Jiao Tong University), Nathan N. Liu (Hong Kong University of Science and Technology), Kai Zhao (NEC Labs China), Yong Yu (Shanghai Jiao Tong University), Qiang Yang (Hong Kong University of Science and Technology)
- LogSig: Generating System Events from Raw Textual Logs
  Liang Tang, Tao Li (Florida International University), Chang-Shing Perng (IBM T.J. Watson Research Center)

Semantic Web and Information Retrieval

Time: 16:00-18:00, Tuesday 25th October 2011
Room: Argyll 1
Chair: Alfredo Cuzzocrea

- Learning-based Relevance Feedback for Web-based Relation Completion [SHORT]
  Zhixu Li (The University of Queensland), Laurianne Sitbon (Queensland University of Technology), Xiaofang Zhou (The University of Queensland)
- Categorising Logical Differences Between OWL Ontologies [SHORT]
  Rafael S. Gonçalves, Bijan Parsia, Ulrike Sattler (University of Manchester)
- ReDRIVE: Result-Driven Database Exploration through Recommendations [SHORT]
  Marina Drosou, Evaggelia Pitoura (University of Ioannina)
- Information Re-finding by Context: A Brain Memory Inspired Approach [SHORT]

Tangjian Deng, Liang Zhao, Ling Feng (Tsinghua University), Wenwei Xue (Nokia Research Center)
- Semantic Data Markets: A Flexible Environment for Knowledge Management [SHORT]
  Roberto De Virgilio (Universita' Roma Tre), Giorgio Orsi (University of Oxford), Letizia Tanca (Politecnico di Milano), Riccardo Torlone (Universita' Roma Tre)
- Advancing the Discovery of Unique Column Combinations [SHORT]
  Ziawasch Abedjan, Felix Naumann (Hasso-Plattner-Institut)
- Continuously Monitoring The Correlations of Massive Discrete Streams [SHORT]
  Yueguo Chen, Wei Wang, Xiaoyong Du (Renmin University of China), Xiaofang Zhou (University of Queensland)

Temporal, Stream and Spatial Information

Time: 16:00-18:00, Tuesday 25th October 2011
Room: Argyll 2
Chair: Massimo Ruffolo

- Coupling or Decoupling for KNN Search on Road Networks? A Hybrid Framework on User Query Patterns
  Ying-Ju Chen (National Taiwan University), Kun-Ta Chuang (National Cheng Kung University), Ming-Syan Chen (National Taiwan University & Academia Sinica)
- Toward Traffic-Driven Location-Based Web Search
  Zhiyuan Cheng, James Caverlee, Krishna Yeswanth Kamath, Kyumin Lee (Texas A&M University)
- CLUES: A Unified Framework Supporting Interactive Exploration of Density-Based Clusters in Streams
  Di Yang, Zhenyu Guo, Elke A Rundensteiner, Matthew O Ward (WPI)
- e-NSP: Efficient Negative Sequential Pattern Mining Based on Identified Positive Patterns Without Database Rescanning [SHORT]
  Xiangjun Dong (Shandong Polytechnic University), Zhigang Zheng, Longbing Cao (University of Technology, Sydney), Yanchang Zhao (Centrelink), Chengqi Zhang, Jinjiu Li, Wei Wei, Yuming Ou (University of Technology, Sydney)
- Optimising Ontology Stream Reasoning with Truth Maintenance System [SHORT]
  Yuan Ren, Jeff Z. Pan (University of Aberdeen)

Query Answering and Social Search

Time: 16:00-18:00, Tuesday 25th October 2011
Room: Argyll 3
Chair: Yuqing Wu

- Multiple Keyword-based Queries over XML Streams [SHORT]
  Felipe C. Hummel, Altigran S. da Silva (Universidade Federal do Amazonas), Mirella M. Moro, Alberto H. F. Laender (Universidade Federal de Minas Gerais)
- Authentication of Location-based Skyline Queries [SHORT]
  Xin Lin (East China Normal University & Hong Kong Baptist University), Jianliang Xu, Haibo Hu (Hong Kong Baptist University)
- Matching Query Processing in High-Dimensional Space [SHORT]
  Chunyang Ma (Zhejiang University), Yongluan Zhou (University of Southern Denmark), Lidan Shou, Dan Dai, Gang Chen (Zhejiang University)
- Answering Label-Constraint Reachability in Large Graphs [SHORT]
  Kun Xu, Lei Zou (Peking University), Jeffery Xu Yu (The Chinese University of Hong Kong), Lei Chen (Hong Kong University of Science and Technology), Yanghua Xiao (Fudan University), Dongyan Zhao (Peking University)
- The List Viterbi Training Algorithm and Its Application to Keyword Search over Databases [SHORT]
  Silvia Rota, Sonia Bergamaschi, Francesco Guerra (University of Modena and Reggio Emilia)
- Context-based People Search in Labeled Social Networks [SHORT]
  Cheng-Te Li (National Taiwan University), Man-Kwan Shan (National Chengchi University), Shou-De Lin (National Taiwan University)

- On Benchmarking Data Translation Systems for Semantic-Web Ontologies [SHORT]
  Carlos R. Rivero, Inma Hernández, David Ruiz, Rafael Corchuelo (University of Sevilla)

Privacy

Time: 16:00-18:00, Tuesday 25th October 2011
Room: Barra & Jura
Chair: Gene Golovchinsky

- Cloning for Privacy Protection in Multiple Independent Data Publications
  Muzammil M Baig, Jiuyong Li, Jixue Liu (University of South Australia), Hua Wang (University of Southern Queensland)
- Privacy-Aware Querying over Sensitive Trajectory Data
  Nikos Pelekis (University of Piraeus), Aris Gkoulalas-Divanis (IBM Research-Zurich), Marios Vodas, Despina Kopanaki, Yannis Theodoridis (University of Piraeus)
- Privacy Preserving Indexing for eHealth Information Networks
  Yuzhe Tang (Georgia Tech), Ting Wang (College of computing), Ling Liu, Shicong Meng, Balaji Palanisamy (Georgia Tech)
- Recommendation in the End-to-End Encrypted Domain
  Jyh-Ren Shieh (National Taiwan University), Ching-Yung Lin (IBM T. J. Waston Research Center), Ja-Ling Wu (National Taiwan University)
- Privacy Preservation by Independent Component Analysis and Variance Control [SHORT]
  Chih-Ming Hsu (National Taiwan University), Ming-Syan Chen (National Taiwan University & Academia Sinica)

Text Mining

Time: 16:00-18:00, Tuesday 25th October 2011
Room: Shuna & Staffa
Chair: Yunyao Yi

- Harvesting Facts from Textual Web Sources by Constrained Label Propagation
  Yafang Wang, Bin Yang, Lizhen Qu, Marc Spaniol, Gerhard Weikum (Max-Planck-Institut für Informatik)
- Towards A Top-Down and Bottom-up Bidirectional Approach to Joint Information Extraction
  Xiaofeng Yu (The Chinese University of Hong Kong), Irwin King (The Chinese University of Hong Kong, AT&T Labs Research), Michael R. Lyu (The Chinese University of Hong Kong)
- From Names to Entities using Thematic Context Distance
  Anja Pilz, Gerhard Paaß (Fraunhofer IAIS)
- Learning Conditional Random Fields with Latent Sparse Features for Acronym Expansion Finding [SHORT]
  Jie Liu, Jimeng Chen (Nankai University), Yi Zhang (UC, Santa Cruz), Yalou Huang (Nankai University)
- Accounting for Data Dependencies within a Hierarchical Dirichlet Process Mixture Model [SHORT]
  Dongwoo Kim, Alice Oh (KAIST)
- Summarizing Web Forum Threads based on a Latent Topic Propagation Process [SHORT]
  Zhaochun Ren, Jun Ma (Shandong University), Shuaiqiang Wang (Shandong University of Finance), Yang Liu (Shandong University)

Wednesday 26th October 2011

Machine Learning for Information Retrieval

Time: 10:00-12:00, Wednesday 26th October 2011
Room: Argyll 1
Chair: Stephen Robertson

- A Probabilistic Method for Inferring Preferences from Clicks
  Katja Hofmann, Shimon Whiteson, Maarten de Rijke (University of Amsterdam)
- Intent-Aware Query Similarity
  Jiafeng Guo, Xueqi Cheng (Institute of Computing Technology, CAS), Gu Xu (Microsoft Research Asia),
  Xiaofei Zhu (Institute of Computing Technology, CAS)
- Semi-supervised Learning to Rank with Preference Regularization
  Martin Szummer, Emine Yilmaz (Microsoft Research)
- Simultaneous Clustering of Multi-Type Relational Data via Symmetric Nonnegative Matrix
  Tri-Factorization [SHORT]
  Hua Wang, Heng Huang, Chris Ding (University of Texas at Arlington)
- Collaborative Online Learning of User Generated Content [SHORT]
  Guangxia Li, Kuiyu Chang, Steven C.H. Hoi, Wenting Liu (Nanyang Technological University), Ramesh Jain
  (University of California)
- Structured Learning of Two-Level Dynamic Rankings [SHORT]
  Karthik Raman, Thorsten Joachims, Pannaga Shivaswamy (Cornell University)

Unsupervised and Semi-supervised Learning

Time: 10:00-12:00, Wednesday 26th October 2011
Room: Argyll 2
Chair: Shin Ando

- Can Irrelevant Data Help Semi-supervised Learning, Why and How?
  Haiqin Yang (The Chinese University of Hong Kong), Shenghuo Zhu (NEC Laboratories America), Irwin King
  (The Chinese University of Hong Kong & AT&T Labs Research), Michael R. Lyu (The Chinese University of
  Hong Kong)
- Toward Interactive Training and Evaluation
  Gregory Druck, Andrew McCallum (University of Massachusetts)
- Semi-supervised Multi-task Learning of Structured Prediction Models for Web Information
  Extraction
  Paramveer S. Dhillon (University of Pennsylvania), Sundararajan Sellamanickam, Sathiya Keerthi Selvaraj
  (Yahoo! Labs)
- Memory-less Unsupervised Clustering for Data Streaming by Versatile Ellipsoidal Function
  [SHORT]
  Niwan Wattanakitrungroj, Chidchanok Lursinsap (Advanced Virtual and Intelligent Computing (AVIC) Center)
- Coupled Nominal Similarity in Unsupervised Learning [SHORT]
  Can Wang, Longbing Cao (University of Technology, Sydney), Mingchun Wang (Tianjin University of
  Technology and Education), Jinjiu Li, Wei Wei, Yuming Ou (University of Technology, Sydney)
- Feature Selection using Hierarchical Feature Clustering [SHORT]
  Huawen Liu (Zhejiang Normal University), Xindong Wu (University of Vermont), Shichao Zhang (University of
  Technology, Sydney)

Type and Structure

Time: 10:00-12:00, Wednesday 26th October 2011
Room: Argyll 3
Chair: Leif Azzopardi

- Learning to Aggregate Vertical Results into Web Search Results
  Jaime Arguello (University of North Carolina), Fernando Diaz (Yahoo! Research), Jamie Callan (Carnegie
  Mellon University)

- Coreference Aware Web Object Retrieval
  Jeffrey Dalton (University of Massachusetts Amherst), Roi Blanco, Peter Mika (Yahoo! Research)
- Tag Clouds Revisited
  Dimitrios Skoutas, Mohammad Alrifai (L3S Research Center)
- Ranking-based Processing of SQL Queries [SHORT]
  Hany Azzam, Thomas Roelleke, Sirvan Yahyaei (Queen Mary, University of London)
- Keyword Search over RDF Graphs [SHORT]
  Shady Elbassuoni (Max-Planck Institute for Informatics), Roi Blanco (Yahoo! Labs)
- Frequency-aware Similarity Measures---Why Arnold Schwarzenegger is Always a Duplicate
  Dustin Lange, Felix Naumann (Hasso Plattner Institute)

Distributed Data Management and Data Integration

Time: 10:00-12:00, Wednesday 26th October 2011
Room: Barra & Jura
Chair: Philip Bohannon

- I/O-Efficient Algorithms for Answering Pattern-Based Aggregate Queries in a Sequence OLAP System
  Chun Kit Chui, Ben Kao (The University of Hong Kong), Eric Lo (The Hong Kong Polytechnic University), Reynold Cheng (The University of Hong Kong)
- Tractable XML Data Exchange via Relations
  Rada Chirkova (North Carolina State University), Leonid Libkin, Juan L Reutter (University of Edinburgh)
- A Parallel Algorithm for Computing Borders
  Nicolas Hanusse, Sofian Maabout (University of Bordeaux)
- Supporting Queries Spanning Across Phases of Evolving Artifacts using Steiner Forests
  Siarhei Bykau, John Mylopoulos (University of Trento), Flavio Rizzolo (Carleton University), Yannis Velegrakis (University of Trento)
- Provenance-Based Refresh in Data-Oriented Workflows
  Robert Ikeda, Semih Salihoglu, Jennifer Widom (Stanford University)

Applications in Different Areas

Time: 10:00-12:00, Wednesday 26th October 2011
Room: Shuna & Staffa
Chair: David Hawking

- Enriching Textbooks with Images
  Rakesh Agrawal, Sreenivas Gollapudi, Anitha Kannan, Krishnaram Kenthapadi (Microsoft Research)
- Exploring the Corporate Ecosystem with a Semi-Supervised Entity Graph
  Hassan H Malik, Ian MacGillivray, Mans Olof-Ors, Siming Sun, Shailesh Saroha (Thomson Reuters)
- Generating Links to Background Knowledge: A Case Study Using Narrative Radiology Reports
  Jiyin He (Centrum Wiskunde en Informatica), Maarten de Rijke (University of Amsterdam), Merlijn Sevenster, Rob van Ommering, Yuechen Qian (Philips Research)
- Information extraction from pathology reports in a hospital setting [SHORT]
  David Martinez, Yue Li (NICTA & University of Melbourne)
- Extract Knowledge from Semi-structured Websites for Search Task Simplification [SHORT]
  Yingqin Gu (Renmin University of China), Jun Yan (Microsoft Research Asia), Hongyan Liu (Tsinghua University), Jun He (Renmin University of China), Lei Ji, Ning Liu, Zheng Chen (Microsoft Research Asia)
- Privacy Protected Knowledge Management in Services with Emphasis on Quality Data [SHORT]
  Debapriyo Majumdar, Rose Catherine, Shajith Ikbal, Karthik Visweswariah (IBM Research)

Information Retrieval Implementation Techniques

Time: 13:30-15:30, Wednesday 26th October 2011
Room: Argyll 1
Chair: Justin Zobel

- Efficiency Optimizations for Interpolating Subqueries
  Marc-Allen Cartright, James Allan (University of Massachusetts Amherst)
- Efficiently Encoding Term Co-occurrences in Inverted Indexes
  Marcus Fontoura (Google Inc.), Maxim Gurevich, Vanja Josifovski, Sergei Vassilvitskii (Yahoo! Research)
- SIMD-Based Decoding of Posting Lists
  Alexander A. Stepanov, Anil R. Gangolli, Daniel E. Rose, Ryan J. Ernst, Paramjit S. Oberoi (A9.com)
- Factorization-based Lossless Compression of Inverted Indices [SHORT]
  George Beskales (University of Waterloo), Marcus Fontoura (Google Inc.), Maxim Gurevich, Sergei Vassilvitskii, Vanja Josifovski (Yahoo! Labs)
- TOPSIG: Topology Preserving Document Signatures [SHORT]
  Shlomo Geva, Christopher De Vries (Queensland University of Technology)
- Implementation Techniques for Large-Scale Latent Semantic Indexing Applications [SHORT]
  Roger B Bradford (Agilex Technologies Inc.)

Social Networks and Communities

Time: 13:30-15:30, Wednesday 26th October 2011
Room: Argyll 2
Chair: Meredith Ringel Morris

- Discovering Top-k Teams of Experts with/without a Leader in Social Networks
  Mehdi Kargar, Aijun An (York University)
- Content based Social Behavior Prediction: A Multi-task Learning Approach [SHORT]
  Hongliang Fei, Ruoyi Jiang, Yuhao Yang, Bo Luo, Jun Huan (University of Kansas)
- Improving User Interest Inference From Social Neighbors [SHORT]
  Zhen Wen, Ching-Yung Lin (IBM T. J. Watson Research Center)
- CASINO: Towards Conformity-aware Social Influence Analysis in Online Social Networks [SHORT]
  Hui Li, Sourav S Bhowmick, Aixin Sun (Nanyang Technological University)
- Mining Direct Antagonistic Communities in Explicit Trust Networks [SHORT]
  David Lo, Didi Surian, Kuan Zhang, Ee-Peng Lim (Singapore Management University)
- Connecting Users with Similar Interests via Tag Network Inference [SHORT]
  Xufei Wang, Huan Liu (Arizona State University), Wei Fan (IBM T.J. Watson Research Center)
- Do All Birds Tweet the Same? Characterizing Twitter Around the World [SHORT]
  Barbara Poblete (University of Chile), Ruth Garcia (Yahoo! Research Barcelona), Marcelo Mendoza (Yahoo! Research Latin-America), Alejandro Jaimes (Yahoo! Research Barcelona)

Language Technology and Information Retrieval

Time: 13:30-15:30, Wednesday 26th October 2011
Room: Argyll 3
Chair: Jussi Karlgen

- Statistical Source Expansion for Question Answering
  Nico Schlaefer (Carnegie Mellon University), Jennifer Chu-Carroll (IBM T.J. Watson Research Center), Eric Nyberg (Carnegie Mellon University), James Fan, Wlodek Zadrozny, David Ferrucci (IBM T.J. Watson Research Center)
- Effective and Efficient Polarity Estimation in Blogs based on Sentence-Level Evidence
  Jose M Chenlo, David E. Losada (Universidade de Santiago de Compostela)
- Passage Retrieval for Incorporating Global Evidence in Sequence Labeling
  Jeffrey Dalton, James Allan, David A Smith (University of Massachusetts Amherst)
- Sentiment Classification Based on Supervised Latent n-gram Analysis
  Dmitriy Bespalov (Drexel University / NEC Labs America), Bing Bai, Yanjun Qi (NEC Labs America), Ali Shokoufandeh (Drexel University)

- Legal Document Clustering with Built-in Topic Segmentation
  Qiang Lu, Jack G. Conrad, Khalid Al-Kofahi, William Keenan (Thomson Reuters)

Keyword Search and Ranked Queries

Time: 13:30-15:30, Wednesday 26th October 2011
Room: Barra & Jura
Chair: Seung-won Hwang

- Ranking Support for Keyword Search on Structured Data using Relevance Models
  Veli Bicer (FZI Forschungszentrum Informatik), Thanh Tran (Institute AIFB), Radoslav Nedkov (disy Informationssysteme GmbH)
- Efficient Similarity Search: Arbitrary Similarity Measures, Arbitrary Composition
  Dustin Lange, Felix Naumann (Hasso Plattner Institute)
- Learning to Rank Results in Relational Keyword Search
  Joel Coffman, Alfred C. Weaver (University of Virginia)
- Adding Structure to Top-K: From Items to Expansions
  Xueyao Liang, Min Xie, Laks V.S. Lakshmanan (University of British Columbia)
- TEXplorer: Keyword-based Object Search and Exploration in Multidimensional Text Databases
  Bo Zhao, Xide Lin, Bolin Ding, Jiawei Han (University of Illinois at Urbana-Champaign)

Sentiments and Other Perspectives

Time: 13:30-15:30, Wednesday 26th October 2011
Room: Shuna & Staffa
Chair: Mohand Boughanem

- Topic Sentiment Analysis in Twitter: A Graph-based Hashtag Sentiment Classification Approach
  Xiaolong Wang (Peking University), Furu Wei, Xiaohua Liu, Ming Zhou (Microsoft Research Asia), Ming Zhang (Peking University)
- Language-independent Sentiment Classification Using Three Common Words [SHORT]
  Zheng Lin, Songbo Tan, Xueqi Cheng (Institute of Computing Technology, Chinese Academy of Sciences)
- A Cross-domain Adaptation Method for Sentiment Classification Using Probabilistic Latent Analysis [SHORT]
  Sheng Gao, Haizhou Li (Institute for Infocomm Research, A*STAR)
- Using Games with a Purpose and Bootstrapping to Create Domain-Specific Sentiment Lexicons
  Albert Weichselbraun (University of Applied Sciences HTW Chur), Stefan Gindl, Arno Scharl (MODUL University Vienna)
- Polarity Analysis of Texts using Discourse Structure
  Bas Heerschop, Frank Goossen, Alexander Hogenboom, Flavius Frasincar (Erasmus University Rotterdam), Uzay Kaymak (Eindhoven University of Technology & Erasmus University Rotterdam), Franciska de Jong (Universiteit Twente & Erasmus University Rotterdam)
- A Query-Based Multi-document Sentiment Summarizer [SHORT]
  Maria Soledad Pera, Rani Qumsiyeh, Yiu-Kai Ng (Brigham Young University)

Results in Context

Time: 16:00-17:40, Wednesday 26th October 2011
Room: Argyll 1
Chair: Noriko Kando

- What and How Children Search on the Web
  Sergio Duarte Torres (University of Twente), Ingmar Weber (Yahoo! Research Barcelona)
- Personalizing Web Search Results by Reading Level
  Kevyn Collins-Thompson, Paul N Bennett, Ryen W White (Microsoft Research), Sebastian de la Chica (Microsoft), David Sontag (Microsoft Research New England)
- Location-aware Click Prediction in Mobile Local Search
  Dimitrios Lymberopoulos (Microsoft Research), Peixiang Zhao (UIUC), Christian Konig (Microsoft Research), Klaus Berberich (MPI), Jie Liu (Microsoft Research)
- Text vs. Space: Efficient Geo-Search Query Processing
  Maria Christoforaki, Jinru He, Constantinos Dimopoulos (Polytechnic Institute of NYU), Alexander Markowetz (University of Bonn), Torsten Suel (Polytechnic Institute of NYU)

Image Retrieval

Time: 16:00-17:40, Wednesday 26th October 2011
Room: Argyll 3
Chair: Yi Chang

- This Image Smells Good: Effects of Image Information Scent in Search Engine Results Pages
  Faidon Loumakis (Fluent Interaction Ltd.), Simone Stumpf (City University London), David Grayson (Fluent Interaction Ltd.)
- Retrieving and Ranking Unannotated Images through Collaboratively Mining Online Search Results
  Songhua Xu (Oak Ridge National Laboratory), Hao Jiang, Francis Chi-Moon Lau (The University of Hong Kong)
- Adaptive Parallel Approximate Similarity Search for Responsive Multimedia Retrieval
  George Teodoro (University of Maryland), Eduardo Valle (Unicamp), Nathan Mariano (UFMG), Ricardo Torres (Unicamp), Wagner Meira Jr. (UFMG)
- A Linear-Time Approximation of the Earth Mover's Distance
  Min-Hee Jang, Sang-Wook Kim (Hanyang University), Christos Faloutsos (Carnegie Mellon University), Sunju Park (Yonsei University)

Evaluation and Analysis

Time: 16:00-17:40, Wednesday 26th October 2011
Room: Barra & Jura
Chair: Jaap Kamps

- Simulating Simple User Behavior for System Effectiveness Evaluation
  Ben Carterette (University of Delaware), Evangelos Kanoulas (University of Sheffield), Emine Yilmaz (Microsoft Research)
- Click the Search Button and Be Happy: Evaluating Direct and Immediate Information Access
  Tetsuya Sakai (Microsoft Research Asia), Makoto P Kato (Kyoto University), Young-In Song (Microsoft Research Asia)
- Local Computation of PageRank: the Ranking Side
  Marco Bressan, Luca Pretto (University of Padova)
- Prioritizing Relevance Judgments to Improve the Construction of IR Test Collections [SHORT]
  Mehdi Hosseini, Ingemar J Cox (University College London), Natasa Milic-Frayling (Microsoft Research Cambridge), Trevor Sweeting (University College London), Vishwa Vinay (Microsoft Research Cambridge)
- Evaluating an Associative Browsing Model for Personal Information [SHORT]
  Jinyoung Kim, Bruce Croft, David Smith, Anton Bakalov (University of Massachusetts)

Data Cleaning and Analysis

Time: 16:00-17:40, Wednesday 26th October 2011
Room: Shuna & Staffa
Chair: Benno Stein

- The Quality of the XML Web [SHORT]
  Steven Grijzenhout (University College London), Maarten Marx (University of Amsterdam)
- Context-based Entity Description Rule for Entity Resolution [SHORT]
  Lingli Li, Jianzhong Li, Hongzhi Wang, Hong Gao (Harbin Institute of Technology)
- Cost-Efficient Repair in Inconsistent Probabilistic Databases [SHORT]
  Xiang Lian, Yincheng Lin, Lei Chen (Hong Kong University of Science and Technology)
- Approximate Tensor Decomposition within a Tensor-Relational Algebraic Framework [SHORT]
  Mijung Kim, Kasim Selcuk Candan (Arizona State University)
- RFID Data Analysis using Tensor Calculus for Supply Chain Management [SHORT]
  Roberto De Virgilio, Franco Milicchio (Universita' Roma Tre)
- Spreadsheet-based Complex Data Transformation [SHORT]
  Vu Hung (UNSW), Boualem Benatallah (CSE), Regis Saint-Paul (CREATE-NET)

Thursday 27th October 2011

Social Media

Time: 10:00-12:00, Thursday 27th October 2011
Room: Argyll 1
Chair: Jun Wang

- Towards a Framework for Attribute Retrieval
  Arlind Kopliku, Mohand Boughanem, Karen Pinel-Sauvagnat (IRIT, University of Toulouse)
- Building Directories for Social Tagging Systems
  Denis Helic (Knowledge Management Institute, Graz University of Technology), Markus Strohmaier
  (Knowledge Management Institute and Know-Center, Graz University of Technology)
- Workload-Aware Indexing for Keyword Search in Social Networks
  Truls A. Bjørklund (Norwegian University of Science and Technology), Michaela Götz, Johannes Gehrke
  (Cornell University), Nils Grimsmo (Norwegian University of Science and Technology)
- Effective Retrieval of Resources in Folksonomies Using a New Tag Similarity Measure
  [SHORT]
  Giovanni Quattrone, Licia Capra (University College London), Pasquale De Meo, Emilio Ferrara (University of
  Messina), Domenico Ursino (Università Mediterranea di Reggio Calabria)
- Content-Driven Detection of Campaigns in Social Media [SHORT]
  Kyumin Lee, James Caverlee, Zhiyuan Cheng (Texas A&M University), Daniel Z. Sui (Ohio State University)
- Exploring Categorization Property of Social Annotations for Information Retrieval [SHORT]
  Peng Li, Bin Wang (Institute of Computing Technology, Chinese Academy of Sciences), Wei Jin (North Dakota
  State University), Jian-Yun Nie (University of Montreal), Zhiwei Shi (Institute of Computing Technology,
  Chinese Academy of Sciences), Ben He (Graduate University of Chinese Academy of Sciences)

Classification and Clustering: Large-scale Statistical Techniques

Time: 10:00-12:00, Thursday 27th October 2011
Room: Argyll 2
Chair: Alfredo Cuzzocrea

- Scalable Density-Based Subspace Clustering
  Emmanuel Müller (Karlsruhe Institute of Technology), Ira Assent (Aarhus University), Stephan Günnemann,
  Thomas Seidl (RWTH Aachen University)
- Correlated Multi-Label Feature Selection
  Quanquan Gu, Zhenhui Li, Jiawei Han (University of Illinois at Urbana-Champaign)
- Pattern Change Discovery between High Dimensional Data Sets
  Yi Xu, Zhongfei Zhang (Binghamton University), Philips Yu (University of Illinois at Chicago), Bo Long (Yahoo!
  Inc)
- MTopS: Scalable Processing of Continuous Top-K Multi-Query Workloads
  Avani Shastri, Yang Di (Worcester Polytechnic Institute), Elke A. Rundensteiner (Ins), Matthew O. Ward
  (Worcester Polytechnic Institute)
- Probabilistic Near-Duplicate Detection Using Simhash
  Sadhan Sood, Dmitri Loguinov (Texas A&M University)

Link Prediction

Time: 10:00-12:00, Thursday 27th October 2011
Room: Shuna & Staffa
Chair: B. Barla Cambazoglu

- Collective Prediction with Latent Graphs
  Xiaoxiao Shi, Yao Li, Philip Yu (University of Illinois at Urbana-Champaign)
- Who Will Follow You Back? Reciprocal Relationship Prediction
  John Hopcroft (Cornell University), Tiancheng Lou, Jie Tang (Tsinghua University)
- Link Prediction: the Power of Maximal Entropy Random Walk
  Rong-Hua Li, Jeffrey Xu Yu (The Chinese University of Hong Kong), Jianquan Liu (University of Tsukuba)

- Exploiting Longer Cycles for Link Prediction in Signed Networks [SHORT]
  Kai-Yang Chiang, Nagarajan Natarajan, Ambuj Tewari, Inderjit S Dhillon (University of Austin at Texas)
- Structural Link Analysis and Prediction in Microblogs [SHORT]
  Dawei Yin, Liangjie Hong, Brian D. Davison (Lehigh University)
- Temporal Link Prediction by Integrating Content and Structure Information [SHORT]
  Sheng Gao, Ludovic Denoyer, Patrick Gallinari (LIP6-UPMC)

Graph Management and Queries

Time: 10:00-12:00, Thursday 27th October 2011
Room: Barra & Jura
Chair: Raffaele Perego

- High Efficiency and Quality: Large Graphs Matching
  Yuanyuan Zhu, Lu Qin, Jeffrey Xu Yu, Yiping Ke (The Chinese University of Hong Kong), Xuemin Lin
  (University of New South Wales & NICTA)
- DELTA: Indexing and Querying Multi-labeled Graphs
  Jiong Yang, Shijie Zhang, Wei Jin (Case Western Reserve University)
- Skynets: Searching for Minimum Trees in Graphs with Incomparable Edge Weights
  Huiping Cao (New Mexico State University), K. Selcuk Candan (Arizona State University), Maria Luisa Sapino
  (Universita di Torino)
- Fast Fully Dynamic Landmark-based Estimation of Shortest Path Distances in Very Large
  Graphs
  Konstantin Tretyakov, Abel Armas-Cervantes, Luciano García-Bañuelos, Jaak Vilo, Marlon Dumas (University
  of Tartu)
- CP-Index: On The Efficient Indexing of Large Graphs
  Yan Xie, Philip S. Yu (University of Illinois at Chicago)

Personalization and Advertising

Time: 13:30-15:30, Thursday 27th October 2011
Room: Argyll 1
Chair: Emine Yilmaz

- Context-Aware Search Personalization with Concept Preference
  Di Jiang, Kenneth Wai-Ting Leung, Wilfred Ng (The Hong Kong University of Science and Technology)
- A Framework for Personalized and Collaborative Clustering of Search Results
  David C Anastasiu, Byron J Gao (Texas State University-San Marcos), David Buttler (Lawrence Livermore
  National Laboratory)
- Using Query Log and Social Tagging to Refine Queries Based on Latent Topics
  Lidong Bing, Wai Lam (The Chinese University of Hong Kong), Tak-Lam Wong (The Hong Kong Institute of
  Education)
- Retrieval Models for Audience Selection in Display Advertising [SHORT]
  Sarah K Tyler (University of California, Santa Cruz), Sandeep Pandey, Evgeniy Gabrilovich, Vanja Josifovski
  (Yahoo! Research)
- A Language Model Approach to Capture Commercial Intent and Information Relevance for
  Sponsored Search [SHORT]
  Lei Wang, Mingjiang Ye (Yahoo! Global R&D Center, Beijing), Yu Zou (Yahoo! Labs)
- Learning to Rank Audience for Behavioral Targeting in Display Ads [SHORT]
  Jian Tang (Peking University), Ning Liu, Jun Yan (Microsoft Research Asia), Yelong Shen (Beihan University),
  Shaodan Guo (Huazhong University of Science and Technology), Bin Gao (Microsoft Research Asia),
  Shuicheng Yan (National University of Singapore), Ming Zhang (Peking University)

Link, Graph and Relation Mining

Time: 13:30-15:30, Thursday 27th October 2011
Room: Argyll 2
Chair: Roi Blanco

- Towards Feature Selection in Network
  Quanquan Gu, Jiawei Han (University of Illinois at Urbana-Champaign)
- Practical Representations for Web and Social Graphs [SHORT]
  Francisco Claude (University of Waterloo), Susana Ladra (Universidade da Coruña)
- Determining the Diameter of Small World Networks [SHORT]
  Frank W. Takes, Walter A. Kosters (LIACS, Leiden University)
- Detecting Anomalies in Graphs with Numeric Labels [SHORT]
  Michael Davis, Weiru Liu, Paul Miller (Queen's University, Belfast), George Redpath (CEM Systems)
- Extracting Multi-dimensional Relations: A Generative Model of Groups of Entities in a Corpus [SHORT]
  Ching-man Au Yeung (ASTRI), Tomoharu Iwata (NTT Communication Science Laboratories)
- Distributed Social Graph Embedding [SHORT]
  Anne-Marie Kermarrec (INRIA Rennes - Bretagne Atlantique), Vincent Leroy (Yahoo! Research), Gilles Trédan (Technische Universität Berlin - Deutsche Telekom Laboratories)
- Classification and Annotation in Social Corpora using Multiple Relations [SHORT]
  Yann Jacob, Ludovic Denoyer, Patrick Gallinari (University Pierre et Marie Curie)

Science, the Past, and the Future

Time: 13:30-15:30, Thursday 27th October 2011
Room: Barra & Jura
Chair: Giorgio Orsi

- Plagiarism Detection Based on Structural Information
  Efstathios Stamatatos (University of the Aegean)
- Studying How the Past is Remembered: Towards Computational History through Large Scale Text Mining
  Ching-man Au Yeung (ASTRI), Adam Jatowt (Kyoto University)
- Combining Machine Learning and Human Judgment in Author Disambiguation [SHORT]
  Yanan Qian (Xi'an Jiaotong University), Yunhua Hu (Microsoft Research Asia), Jianling Cui (Nankai University), Qinghua Zheng (Xi'an Jiaotong University), Zaiqing Nie (Microsoft Research Asia)
- Citation Count Prediction: Learning to Estimate Future Citations for Literature [SHORT]
  Rui Yan (Peking University), Jie Tang (Tsinghua University), Xiaobing Liu, Dongdong Shan, Xiaoming Li (Peking University)
- Extracting Cross References from Life Science Databases for Search Result Ranking [SHORT]
  Anja Bachmann, Rene Schult (Otto-von-Guericke-University), Matthias Lange (Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)), Myra Spiliopoulou (Otto-von-Guericke-University)
- Extracting Collective Expectations about the Future from Large Text Collections [SHORT]
  Adam Jatowt (Kyoto University), Ching-man Au Yeung (ASTRI)

Information Extraction and Entities

Time: 13:30-15:30, Thursday 27th October 2011
Room: Shuna & Staffa
Chair: Xiaofeng Yu

- Towards a Unified Solution: Data Record Region Detection and Segmentation
  Lidong Bing, Wai Lam, Yuan Gu (The Chinese University of Hong Kong)

- Fast Metadata-driven Multiresolution Tensor Decomposition
  Claudio Schifanella (University of Torino), K. Selçuk Candan (Arizona State University), Maria Luisa Sapino (University of Torino)
- Enabling Information Extraction by Inference of Regular Expressions from Sample Entities
  Falk Brauer, Robert Rieger, Adrian Mocan, Wojciech M. Barczynski (SAP AG)
- Mining Entity Translations from Comparable Corpora: A Holistic Graph Mapping Approach
  Jinhan Kim (POSTECH), Long Jiang (Microsoft Research Asia), Seung-won Hwang (POSTECH), Young-In Song, Ming Zhou (Microsoft Research Asia)
- Max Margin Learning on Domain-Independent Web Information Extraction [SHORT]
  Bin Zhao (Carnegie Mellon University), Xiaoxin Yin (Microsoft Research), Eric P. Xing (Carnegie Mellon University)

Algorithms

Time: 16:00-17:40, Thursday 27th October 2011
Room: Argyll 1
Chair: Felix Naumann

- One is Enough: Distributed Filtering for Duplicate Elimination
  Georgia Koloniari, Nikos Ntarmos, Evaggelia Pitoura, Dimitris Souravlias (University of Ioannina)
- Duplicate Detection Through Structure Optimization
  Luís Leitão, Pável Calado (IST/INESC-ID)
- SISP: A New Framework for Searching the Informative Subgraph Based on PSO
  Chen Chen, Guoren Wang, Huilin Liu, Junchang Xin, Ye Yuan (Ministry of Education & Northeastern University China)
- Indexes for Highly Repetitive Document Collections [SHORT]
  Francisco Claude (University of Waterloo), Antonio Fariña (University da Coruña), Miguel A. Martínez-Prieto, Gonzalo Navarro (University of Chile)
- Partial Duplicate Detection for Large Book Collections [SHORT]
  Ismet Zeki Yalniz, Ethem F. Can, R. Manmatha (University of Massachusetts-Amherst)

Queries, Questions and Tags Mining

Time: 16:00-17:40, Thursday 27th October 2011
Room: Argyll 2
Chair: Jian-Tao Sun

- Finding Dimensions for Queries
  Zhicheng Dou (Microsoft Research Asia), Sha Hu (Renmin University of China), Yulong Luo (Shanghai Jiaotong University), Ruihua Song, Ji-Rong Wen (Microsoft Research Asia)
- Large-Scale Question Classification in cQA by Leveraging Wikipedia Semantic Knowledge
  Li Cai, Guangyou Zhou, Kang Liu, Jun Zhao (Institute of Automation, Chinese Academy of Sciences)
- Hierarchical Tag Visualization and Application for Tag Recommendations
  Yang Song (Microsoft Research, Redmond), Baojun Qiu (Pennsylvania State University), Umer Farooq (Microsoft)
- Perspective Hierarchical Dirichlet Process for User-Tagged Image Modeling [SHORT]
  Xin Chen, Xiaohua Hu, Yuan An, Zunyan Xiong (Drexel University), Tingting He (Central China Normal University), E.K. Park (California State University, Chico)
- Asking What No One Has Asked Before: Using Phrase Similarities To Generate Synthetic Web Search Queries [SHORT]
  Marius Pasca (Google Inc.)

Preparing, Mining and Evaluating with and for Different Views

Time: 16:00-17:40, Thursday 27th October 2011
Room: Barra & Jura
Chair: Hwanjo Yu

- Simultaneous Joint and Conditional Modeling of Documents Tagged from Two Perspectives
  Pradipto Das, Rohini Srihari, Yun Fu (SUNY Buffalo)
- External Evaluation Measures for Subspace Clustering
  Stephan Günnemann, Ines Färber (RWTH Aachen University), Emmanuel Müller (Karlsruhe Institute of Technology), Ira Assent (Aarhus University), Thomas Seidl (RWTH Aachen University)
- Behavior-driven Clustering of Queries into Topics
  Luca Maria Aiello (Università di Torino), Debora Donato, Umut Ozertem (Yahoo! Labs), Filippo Menczer (Indiana University)
- Discovering Customer Intent in Real-time for Streamlining Service Desk Conversations [SHORT]
  Ullas Nambiar, Tanveer Faruquie, L Venkata Subramaniam, Sumit Negi (IBM Research - India), Ganesh Ramakrishnan (Indian Institute of Technology,)
- Sparse Structured Probabilistic Projections for Factorized Latent Spaces [SHORT]
  Xinquan Qu, Xinlei Chen (Zhejiang University)

Information Extraction and Semantic Techniques

Time: 16:00-17:40, Thursday 27th October 2011
Room: Shuna & Staffa
Chair: Marie-Aude Aufaure

- Automated Feature Generation from Structured Knowledge
  Weiwei Cheng (University of Marburg), Gjergji Kasneci, Thore Graepel, David Stern, Ralf Herbrich (Microsoft Research)
- Filtering and Clustering Relations for Unsupervised Information Extraction in Open Domain
  Wei Wang, Romaric Besançon, Olivier Ferret (CEA LIST), Brigitte Grau (LIMSI CNRS)
- Facilitating Pattern Discovery for Relation Extraction with Semantic-Signature-based Clustering
  Yunyao Li, Vivian Chu (IBM Research - Almaden), Sebastian Blohm (Microsoft Corporation), Huaiyu Zhu, Howard Ho (IBM Research - Almaden)
- Finding All Justifications of OWL Entailments Using TMS and MapReduce
  Gang Wu (Ministry of Education & Northeastern University China), Guilin Qi (Southeast University), Jianfeng Du (Guangdong University of Foreign Studies & Chinese Academy of Sciences)

Posters

Poster Session: IR Track

Time: 16:00-18:00, Tuesday 25th October 2011

Room: Castle

01. Search Result Diversification for Enterprise Data

Wei Zheng, Hui Fang (University of Delaware), Conglei Yao, Min Wang (HP Labs China)

02. Diversification for Multi-domain Result Sets

Alessandro Bozzon, Marco Brambilla, Piero Fraternali, Marco Tagliasacchi (Politecnico di Milano)

03. A Peer's-Eye View: Network Term Clouds in a Peer-to-Peer System

Raynor Vliegendhart, Martha Larson, Christoph Kofler, Johan Pouwelse (Delft University of Technology)

04. RerankEverything: A Reranking Interface for Exploring Search Results

Takehiro Yamamoto, Satoshi Nakamura, Katsumi Tanaka (Kyoto University)

05. HealthTrust: Trust-based Retrieval of YouTube's Diabetes Channels

Luis Fernandez-Luque (University of Tromso), Randi Karlsen (Northern Research Institute), Genevieve B Melton (University of Minnesota)

06. Item Categorization in the e-Commerce Domain

Dan Shen, Jean David Ruvini, Manas Somaiya, Neel Sundaresan (eBay Research Labs)

07. An Efficient Method for Using Machine Translation Technologies in Cross-Language Patent Search

Walid Magdy, Gareth J. F. Jones (Dublin City University)

08. Understanding the Types of Information Humans Associate with Geographic Objects

Ahmet Aker, Robert Gaizauskas (University of Sheffield)

09. Google, Bing and a New Perspective on Ranking Similarity

Bruno Cardoso, João Magalhães (Universidade Nova de Lisboa)

10. Effectiveness Beyond the First Crawl Tier

Rodrygo L. T. Santos, Craig Macdonald, Iadh Ounis (University of Glasgow)

11. Worker Types and Personality Traits in Crowdsourcing Relevance Labels

Gabriella Kazai (Microsoft Research), Jaap Kamps (University of Amsterdam), Natasa Milic-Frayling (Microsoft Research)

12. A Nugget-based Test Collection Construction Paradigm

Shahzad Rajput, Virgil Pavlu, Peter B. Golbus, Javed A. Aslam (Northeastern University)

13. Recency Ranking by Diversification of Result Set

Andrey Styskin, Fedor Romanenko, Fedor Vorobyev, Pavel Serdyukov (Yandex)

14. Patent Query Reduction using Pseudo Relevance Feedback

Debasis Ganguly, Johannes Leveling, Walid Magdy, Gareth J. F. Jones (Dublin City University)

15. Relevance Feedback Exploiting Query-Specific DocumentManifolds

Chang Wang (IBM T. J. Watson Research Lab.), Emine Yilmaz, Martin Szummer (Microsoft Research)

16. Insights into Explicit Semantic Analysis

Thomas Gottron (University of Koblenz-Landau), Maik Anderka, Benno Stein (Bauhaus-Universität Weimar)

17. On Bias Problem in Relevance Feedback

Qianli Xing (Tsinghua University), Yi Zhang, Lanbo Zhang (University of California, Santa Cruz)

18. Selecting Related Terms in Query-logs using Two-Stage SimRank

Yunlong Ma, Hongfei Lin, Yuan Lin (Dalian University of Technology)

19. On Relevance, Time and Query Expansion

Giuseppe Amodeo (University of L'Aquila), Giambattista Amati (Fondazione Ugo Bordoni), Giorgio Gambosi (Tor Vergata University)

20. Diverse Retrieval via Greedy Optimization of Expected 1-call@k in a Latent Subtopic Relevance Model

Scott Sanner (NICTA), Shengbo Guo (Xerox Research Centre Europe), Thore Graepel (Microsoft Research), Sadegh Kharazmi (RMIT), Sarvnaz Karimi (NICTA)

21. Hybrid Models for Future Event Prediction

Giuseppe Amodeo (University of L'Aquila), Roi Blanco, Ulf Brefeld (Yahoo! Research)

22. Adaptive Term Frequency Normalization for BM25

Yuanhua Lv, ChengXiang Zhai (University of Illinois at Urbana-Champaign)

23. An Unsupervised Ranking Method Based on a Technical Difficulty Terrain

Shoaib Jameel, Wai Lam (The Chinese University of Hong Kong), Ching-man Au Yeung (ASTRI), Sheaujiun Chyan (The Chinese University of Hong Kong)

24. When Close Enough Is Good Enough: Approximate Positional Indexes for Efficient Ranked Retrieval

Tamer Elsayed (King Abdullah University of Science and Technology), Jimmy Lin (University of Maryland), Donald Metzler (University of Southern California)

25. Index Tuning for Query-log based On-line Index Maintenance

Sairam Gurajada (Max-Planck-Institut für Informatik), Sreenivasa Kumar P (Indian Institute of Technology Madras)

26. Efficient Phrase Querying with Flat Position Index

Dongdong Shan, Wayne Xin Zhao, Jing He, Rui Yan, Hongfei Yan, Xiaoming Li (Peking University)

27. Trained Trigger Language Model for Sentence Retrieval in QA: Bridging the Vocabulary Gap

Saeedeh Momtazi (Hasso-Plattner-Institut), Dietrich Klakow (Saarland University)

28. Topic Modeling for Named Entity Queries

Xiaobing Xue (University of Massachusetts Amherst), Xiaoxin Yin (Microsoft Research)

29. Semantic Convolution Kernels Over Dependency Trees---Smoothed Partial Tree Kernel

Danilo Croce (University of Tor Vergata), Alessandro Moschitti (University of Trento), Roberto Basili (University of Tor Vergata)

30. Recommending Citations with Translation Model

Yang Lu, Jing He, Dongdong Shan, Hongfei Yan (Peking University)

31. Extracting Adjective Facets from Community Q&A Corpus

Takehiro Yamamoto, Satoshi Nakamura, Katsumi Tanaka (Kyoto University)

32. A Novel Framework of Training Hidden Markov Support Vector Machines from Lightly-Annotated Data

Deyu Zhou (Southeast University), Yulan He (Open University)

33. Learning to Recommend Questions Based on Public Interest

Jun Wang (Beihang University), Xia Hu (Arizona State University), Zhoujun Li, Wenhan Chao, Biyun Hu (Beihang University)

34. CQC: Classifying Questions in CQA Websites

Amit Singh, Karthik Visweswariah (IBM)

35. Automatic Query Reformulation with Syntactic Operators to Alleviate Search Difficulty

Huizhong Duan, Rui Li, ChengXiang Zhai (University of Illinois at Urbana-Champaign)

36. Question Routing in Community Question Answering: Putting Category in Its Place

Baichuan Li, Irwin King, Michael R. Lyu (The Chinese University of Hong Kong)

37. Fact-Based Question Decomposition for Candidate Answer Re-Ranking

   Aditya Kalyanpur, Siddharth Patwardhan, Branimir Boguraev, Adam Lally, Jennifer Chu-Carroll (IBM T.J.Watson Research Center)

38. CoDet: Sentence-based Containment Detection in News Corpora

   Emre Varol, Fazli Can, Cevdet Aykanat, Oguz Kaya (Bilkent University)

39. Smoothing NDCG Metrics Using Tied Scores

   Andrey Kustarev, Yury Ustinovsky, Yury Logachev, Evgeny Grechnikov, Ilya Segalovich, Pavel Serdyukov (Yandex)

40. Learning to Rank with Cross Entropy

   Yuan Lin, Hongfei Lin, Jiajin Wu, Kan Xu (Dalian University of Technology)

41. Predicting Document Effectiveness in Pseudo Relevance Feedback

   Mostafa Keikha (University of Lugano), Jangwon Seo, Bruce W Croft (University of Massachusetts Amherst), Fabio Crestani (University of Lugano)

42. Learning to Rank Categories for Web Queries

   Prashant V Ullegaddi, Vasudeva Varma (International Institute of Information Technology, Hyderabad)

43. Supervised Language Modeling for Temporal Resolution of Texts

   Abhimanu Kumar, Matthew Lease, Jason Baldridge (University of Texas at Austin)

44. Context-Aware Query Recommendation by Learning High-Order Relation in Query Logs

   Xiaohui Yan, Jiafeng Guo, Xueqi Cheng (Institute of Computing Technology, Chinese Academy of Sciences)

45. Efficient lp-norm Multiple Feature Metric Learning for Image Categorization

   Shuhui Wang, Qingming Huang, Shuqiang Jiang (Chinese Academy of Sciences), Qi Tian (University of Texas at San Antonio)

46. Re-ranking by Local Re-Scoring for Video Indexing andRetrieval

   Bahjat Safadi (Université Joseph Fourier), Georges Quénot (Centre National de la Recherche Scientifique)

47. Tightly Coupling Visual and Linguistic Features for Enriching Audio-Based Web Browsing Experience

   Muhammad Asiful Islam, Faisal Ahmed, Yevgen Borodin, I.V. Ramakrishnan (Stony Brook University)

48. Robust Video Fingerprinting based on Hierarchical Symmetric Difference Feature

   Jungho Lee, Seungjae Lee, Yongseok Seo, Wonyoung Yoo (Electronics and Telecommunications Research Institute)

49. Image Clustering Fusion Technique Based on BFS

   Luca Costantini, Raffaele Nicolussi (Fondazione Ugo Bordoni)

50. Efficient Retrieval of 3D Building Models Using Embeddings of Attributed Subgraphs

   Raoul Wessel, Sebastian Ochmann, Richard Vock (University of Bonn), Ina Blümel (German National Library of Science and Technology Hannover), Reinhard Klein (University of Bonn)

51. Constructing Seminal Paper Genealogy

   Duck-Ho Bae, Se-Mi Hwang, Sang-Wook Kim (Hanyang University), Christos Faloutsos (Carnegie Mellon University)

52. Leveraging Wikipedia Concept and Category Information to Enhance Contextual Advertising

   Zongda Wu (Wenzhou University), Guandong Xu (Victoria University), Rong Pan (Aalborg University), Yanchun Zhang (Victoria University), Zhiwen Hu (Wenzhou University), Jianfeng Lu (Zhejiang Normal University)

53. Beyond Relevance in Marketplace Search

   Nish Parikh, Neel Sundaresan (eBay Inc.)

54. Relative Effect of Spam and Irrelevant Documents on User Interaction with Search Engines

   Timothy Jones (Australian National University), David Hawking (Funnelback Pty Ltd and Australian National University), Paul Thomas (CSIRO), Ramesh Sankaranarayana (Australian National University)

55. Inferring Query Aspects from Reformulations Using Clustering

Van Dang, Xiaobing Xue, Bruce Croft (University of Massachusetts Amherst)

56. Advertiser-Centric Approach to Understand User Click Behavior in Sponsored Search

Sungchul Kim (POSTECH), Tao Qin (Microsoft Research Asia), Hwanjo Yu (POSTECH), Tie-Yan Liu (Microsoft Research Asia)

57. Supervised Matching of Comments with News Article Segments

Dyut Kumar Sil (IISc), Srinivasan H Sengamedu (Yahoo! Labs), Chiranjib Bhattacharyya (IISc)

58. User Action Interpretation for Personalized Content Optimization in Recommender Systems

Anlei Dong, Jiang Bian (Yahoo! Labs), Xiaofeng He (Microsoft China Lt.), Srihari Reddy, Yi Chang (Yahoo! Labs)

59. A Personalized Recommendation System on Scholarly Publications

Maria Soledad Pera, Yiu-Kai Ng (Brigham Young University)

60. Collaborative Exploratory Search in Real-World Context

Naoki Tani, Danushka Bollegala (The University of Tokyo), Naiwala Chandrasiri (Toyota Info Technology Center), Keisuke Okamoto (Toyota Motor Corp.), Kazunari Nawa (Toyota InfoTechnology Center), Shuhei Iitsuka, Yutaka Matsuo (The University of Tokyo)

61. Beyond Precision@10: Clustering the Long Tail of Web Search Results

Benno Stein, Tim Gollub, Dennis Hoppe (Bauhaus-Universität)

Poster Session: KM Track

Time: 16:00-17:40, Wednesday 26th October 2011

Room: Castle

01. Spectral Analysis of a Blogosphere

    Sang-Wook Kim, Ki-Nam Kim (Hanyang University), Christos Faloutsos (Carnegie Mellon University), Joon-Ho Lee (NHN Corp.)

02. Citation Chain Aggregation: An Interaction Model to Support Citation Cycling

    Timothy F Cribbin (Brunel University)

03. Collaborative Blacklist Generation via Searches-and-Clicks

    Lung-Hao Lee, Hsin-Hsi Chen (National Taiwan University)

04. Attention Prediction on Social Media Brand Pages

    Himabindu Lakkaraju, Jitendra Ajmera (IBM Research - India)

05. Do They Belong to the Same Class? Active Learning by Querying Pairwise Label Homogeneity

    Yifan Fu, Bin Li, Xingquan Zhu, Chengqi Zhang (University of Technology, Sydney)

06. Structured Data Classification by Means of Matrix Factorization

    Paolo Garza (Politecnico di Milano)

07. Transfer Active Learning

    Zhenfeng Zhu (ZHengzhou University), Xingquan Zhu (University of Technology, Sydney), Yangdong Ye (ZHengzhou University), Yuefei Guo, Xiangyang Xue (Fudan University)

08. A Probabilistic Approach to Nearest-NeighborClassification: Naive Hubness Bayesian kNN

    Nenad Tomasev (Institute Jozef Stefan), Miloa Radovanovi (University of Novi Sad), Dunja Mladeni (Institute Jozef Stefan), Mirjana Ivanovi (University of Novi Sad)

09. Representing Document as Dependency Graph for Document Clustering

    Yujing Wang (Peking University), Xiaochuan Ni, Jian-Tao Sun (Microsoft Research Asia), Yunhai Tong (Peking University), Zheng Chen (Microsoft Research Asia)

10. Finding Redundant and Complementary Communities in Multidimensional Networks

    Michele Berlingerio (ISTI-CNR), Michele Coscia (ISTI-CNR, University of Pisa), Fosca Giannotti (ISTi-CNR)

11. Promotional Subspace Mining with EProbe Framework

    Yan Zhang, Yiyu Jia (Vermont Information Processing), Wei Jin (North Dakota State University)

12. A Partitioning Method for Symbolic Interval Data Based on Kernelized Metric

    Bruno Pimentel, Anderson Costa, Renata Souza (Universidade Federal de Pernambuco)

13. Hierarchy Evolution for Improved Classification

    Xiaoguang Qi, Brian D. Davison (Lehigh University)

14. Using Random Walks for Multi-label Classification

    Chaokun Wang, Wei Zheng, Zhang Liu, Yiyuan Bai, Jianmin Wang (Tsinghua University)

15. Latent Feature Encoding using Dyadic and Relational Data

    Shin Ando (Gunma University)

16. Learning Kernels with Upper Bounds of Leave-One-Out Error

    Yong Liu, Shizhong Liao, Yuexian Hou (Tianjin University)

17. KLEAP: An Efficient Cleaning Method to Remove Cross-reads in RFID Streams

    Guoqiong Liao, Jing Li (Jiangxi University of Finance and Economics), Lei Chen (Hong Kong University of Science and Technology), Changxuan Wan (Jiangxi University of Finance and Economics)

18. A Diversity Measure Leveraging Domain Specific Auxiliary Information

    Narayan Bhamidipati, Nagaraj Kota (Yahoo! Labs)

19. Mining Query Structure from Click Data: A Case Study of Product Queries

    Julia Kiseleva (Saint-Petersburg State University), Eugene Agichtein (Emory University), Daniel Billsus (Shopping.com)

20. Towards Expert Finding by Leveraging Relevant Categories in Authority Ranking

    Hengshu Zhu (University of Science and Technology of China), Huanhuan Cao (Nokia Research Center), Hui Xiong (Rutgers University), Enhong Chen (University of Science and Technology of China), Jilei Tian (Nokia Research Center)

21. Joint Inference for Cross-document Information Extraction

    Qi Li, Sam Anzaroot, Wen-Pin Lin, Xiang Li, Heng Ji (City University of New York)

22. Building a Generic Debugger for Information Extraction Pipelines

    Anish Das Sarma, Alpa Jain, Philip Bohannon (Yahoo!)

23. Fast Supervised Feature Extraction by Term Discrimination Information Pooling

    Amara Tariq, Asim Karim (Lahore University of Management Sciences)

24. Constructing Efficient Information Extraction Pipelines

    Henning Wachsmuth (Universität Paderborn, s-lab), Benno Stein (Bauhaus-Universität Weimar), Gregor Engels (Universität Paderborn, s-lab)

25. CoRankBayes: Bayesian Learning to Rank under the Co-training Framework and Its Application in Keyphrase Extraction

    Chen Wang, Sujian Li (Peking University)

26. Discovering Trending Phrases on Information Streams

    Krishna Y Kamath, James Caverlee (Texas A&M University)

27. Review Recommendation: Personalized Prediction of the Quality of Online Reviews

    Samaneh Moghaddam, Mohsen Jamali, Martin Ester (Simon Fraser University)

28. Improving K-Nearest Neighbors Algorithms: Practical Application of Dataset Analysis

    Fidel Cacheda, Victor Carneiro, Diego Fernández, Vreixo Formoso (University of A Coruña)

29. Structured Collaborative Filtering

    Alejandro Bellogin (Universidad Autonoma de Madrid), Jun Wang (University College London), Pablo Castells (Universidad Autonoma de Madrid)

30. User Oriented Tweet Ranking: A Filtering Approach to Microblogs

    Ibrahim Uysal, William Bruce Croft (University of Massachusetts, Amherst)

31. A Semi-Supervised Hybrid System to Enhance the Recommendation of Channels in Terms of Campaign ROI

    Julie Séguéla (Cedric-CNAM & Multiposting.fr), Gilbert Saporta (Cedric-CNAM)

32. YANA: An Efficient Privacy-Preserving Recommender System for Online Social Communities

    Dongsheng Li (Fudan University), Qin Lv, Li Shang (University of Colorado at Boulder), Ning Gu (Fudan University)

33. More Influence Means Less Work: Fast Latent Dirichlet Allocation by Influence Scheduling

    Mirwaes Wahabzada, Kristian Kersting, Anja Pilz, Christian Bauckhage (Fraunhofer Institute for Intelligent Analysis and Information Systems)

34. Utility-Driven Anonymization in Data Publishing

    Mingqiang Xue (National University of Singapore), Panagiotis Karras (Rutgers University), Chedy Raïssi (INRIA), Hung Keng Pung (National University of Singapore)

35. Privacy Preserving Feature Selection for Distributed Data Using Virtual Dimension

    Madhushri Banerjee (Georgia Gwinnett College), Sumit Chakravarty (Stinger & Ghaffarian Technologies Inc.)

36. Switch Detector: An Activity Spotting System for Desktop

    Hamid Turab Mirza, Ling Chen, Gencai Chen, Ibrar Hussain, Xufeng He (Zhejiang University)

37. LSH Based Outlier Detection and Its Application in Distributed Setting

    Madhuchand Rushi Pillutla, Nisarg Raval, Piyush Bansal, Kannan Srinathan, C. V. Jawahar (International Institute of Information Technology)

38. Authormagic - An Approach to Author Disambiguation in Large-Scale Digital Libraries

    Henning Weiler (University Erlangen-Nuremberg and CERN), Klaus Meyer-Wegener (University Erlangen-Nuremberg), Salvatore Mele (CERN)

39. DIGRank: Using Global Degree to Facilitate Ranking in an Incomplete Graph

    Xiang Niu, Lu song Li, Ke Xu (Beihang University)

40. On Selection of Objective Functions in Multi-Objective Community Detection

    Chuan Shi (Beijing University of Posts and Telecommunications), Philip S. Yu (University of Illinois at Chicago), Yanan Cai (Beijing University of Posts and Telecommunications), Zhenyu Yan (Fair Isaac Corporation), Bin Wu (Beijing University of Posts and Telecommunications)

41. Suggesting Ghost Edges for a Smaller World

    Manos Papagelis (University of Toronto), Francesco Bonchi, Aristides Gionis (Yahoo! Research)

42. Examining the 'Leftness' Property of Wikipedia Categories

    Karl Gyllstrom, Marie-Francine Moens (Katholieke Universiteit Leuven)

43. Detection of Text Quality Flaws as a One-class Classification Problem

    Maik Anderka, Benno Stein, Nedim Lipka (Bauhaus-Universität Weimar)

44. Two Birds with One Stone: Learning Semantic Models for Text Categorization and Word Sense Disambiguation

    Roberto Navigli, Stefano Faralli (Sapienza University of Rome), Aitor Soroa, Oier de Lacalle, Eneko Agirre (University of the Basque Country)

45. More or Better: On Trade-offs in Compacting Textual Problem Solution Repositories

    Deepak P (IBM Research - India), Sutanu Chakraborti (IIT Madras), Deepak Khemani (IIT Mandi)

46. Mining Frequent Patterns Across Multiple Data Streams

    Jing Guo, Peng Zhang, Jianlong Tan, Li Guo (Institute of Computing Technology, Chinese Academy of Sciences)

47. SILA: A Spatial Instance Learning Approach for Deep WebPages

    Ermelinda Oro, Massimo Ruffolo (ICAR-CNR)

48. A Geographic Study of Tie Strength in Social Media

    Jeffrey McGee, James A Caverlee, Zhiyuan Cheng (Texas A&M University)

49. Named Entity Recognition using a modified Pegasos algorithm

    Changki Lee, Pum-Mo Ryu, HyunKi Kim (ETRI)

50. WikiLabel: An Encyclopedic Approach to Labeling Documents en masse
    Tadashi Nomoto (National Institute of Japanese Literature)

51. Towards Noise-Resilient Document Modeling

    Tao Yang, Dongwon Lee (The Pennsylvania State University)

52. Probabilistic Model for discovering Topic based Communities in Social Networks
    Mrinmaya Sachan, Danish Contractor, Tanveer Faruquie, Venkata Subramaniam (IBM Research India)

Poster Session: DB Track

Time: 16:00-17:40, Thursday 27th October 2011

Room: Castle

01. Scalable Entity Matching Computation with Materialization

Sanghoon Lee, Jongwuk Lee, Seung-won Hwang (Pohang University of Science and Technology (POSTECH))

02. Predicting the Optimal Ad-hoc Index for Reachability Queries on Graph Databases

Jintian Deng, Fei Liu, Yun Peng, Byron Choi, Jianliang Xu (Hong Kong Baptist University)

03. Collection-Based Compression using Discovered Long Matching Strings

Andrew Peel, Anthony Wirth, Justin Zobel (The University of Melbourne)

04. A Robust Index for Regular Expression Queries

Dominic Tsang, Sanjay Chawla (University of Sydney)

05. Integrating and Querying Web Databases and Documents

Carlos Garcia-Alvarado, Carlos Ordonez (University of Houston)

06. Processing the Signature Quadratic Form Distance on Many-Core GPU Architectures

Martin Kruliš, Jakub Lokoč (Charles University in Prague), Christian Beecks (RWTH Aachen University), Tomáš Skopal (Charles University in Prague), Thomas Seidl (RWTH Aachen University)

07. Top-k Most Influential Locations Selection

Jin Huang (South China University of Technology), Zeyi Wen, Jianzhong Qi, Rui Zhang (University of Melbourne), Jian Chen (South China University of Technology), Zhen He (La Trobe University)

08. Defining Isochrones in Multimodal Spatial Networks

Johann Gamper (Free University of Bolzano-Bozen), Michael Böhlen (University of Zurich), Willi Cometti, Markus Innerebner (Free University of Bolzano-Bozen)

09. On the Elasticity of NoSQL Databases over Cloud Management Platforms

Ioannis Konstantinou, Evangelos Angelou, Christina Boumpouka, Dimitrios Tsoumakos, Nectarios Koziris (National Technical University of Athens)

10. Continuous Data Stream Query in the Cloud

Jun Li (Beijing University of Posts and Telecommunications), Peng Zhang, Jianlong Tan, Ping Liu, Li Guo (Chinese Academy of Sciences)

11. A Cluster based Mobile Peer to Peer Architecture in Wireless Ad Hoc Networks

He Li, KyoungSoo Bok, JaeSoo Yoo (Chungbuk National University)

12. Block-based Load Balancing for Entity Resolution with MapReduce

Lars Kolb, Andreas Thor, Erhard Rahm (University of Leipzig)

13. PCMLogging: Reducing Transaction Logging Overhead with PCM

Shen Gao, Jianliang Xu (Hong Kong Baptist University), Bingsheng He (Nanyang Technological University), Byron Choi, Haibo Hu (Hong Kong Baptist University)

14. A Continuous Query Evaluation Scheme for a Detection-Only Query over Data Streams

Hong Kyu Park, Won Suk Lee (Yonsei University)

15. Subject-oriented Top-k Hot Region Queries in SpatialDataset

Junling Liu (Northeastern University, Shenyang Jianzhu University), Ge Yu (Northeastern University), Huanliang Sun (Shenyang Jianzhu University)

16. k-Nearest Neighbor Query Processing Method Based on Distance Relation Pattern

Yonghun Park (Chungbuk National University), Dongmin Seo (Korea Institute of Science and Technology Information), Kyoungsoo Bok, Jaesoo Yoo (Chungbuk National University)

17. Efficient Query Rewrite for Structured Web Queries

Sreenivas Gollapudi, Samuel Ieong (Microsoft Research), Alexandros Ntoulas (Zynga), Stelios Paparizos (Microsoft Research)

18. Rule-based Construction of Matching Processes

Eric Peukert (SAP Research, SAP AG), Julian Eberius (Dresden University of Technology), Erhard Rahm (University of Leipzig)

19. A Taxonomy of Local Search: Semi-Supervised Query Classification Driven by Information Needs

Jiang Bian, Yi Chang (Yahoo! Labs)

20. ONTOCUBE: Efficient Ontology Extraction using OLAP Cubes

Carlos Garcia-Alvarado, Zhibo Chen, Carlos Ordonez (University of Houston)

21. An Algorithm for Axiom Pinpointing in EL+ and its Incremental Variant

Xiaojun Cheng, Guilin Qi (Southeast University)

22. Folksonomy-Based Term Extraction for Word Cloud Generation

David Carmel, Erel Uziel, Ido Guy, Yosi Mass, Haggai Roitman (IBM Research, Haifa lab)

23. Efficient Association Discovery with Keyword-based Constraints on Large Graph Data

Mo Zhou, Yifan Pan, Yuqing Wu (Indiana University)

24. AWETO: Efficient Incremental Update and Querying in RDF Storage System

Xu Pu, Jianyong Wang (Tsinghua University), Ping Luo, Min Wang (HP Labs China)

25. Insert-friendly XML Containment Labeling Scheme

Canwei Zhuang, Ziyu Lin, Shaorong Feng (Xiamen University)

26. A Pretopological Framework for the Automatic Construction of Lexical-Semantic Structures from Texts

Guillaume Cleuziou, Davide Buscaldi, Vincent Levorato (University of Orléans), Gaël Dias (Universidade da Beira Interior)

27. Leveraging Web 2.0 Data for Scalable Semi-supervised Learning of Domain-specific Sentiment Lexicons

Raymond Yiu Keung Lau, Chun Lam Lai (City University of Hong Kong), Peter B. Bruza (Queensland University of Technology), Kam F. Wong (Chinese University of Hong Kong)

28. Classifying Trending Topics: A Typology of Conversation Triggers on Twitter

Arkaitz Zubiaga, Damiano Spina, Víctor Fresno, Raquel Martínez (UNED)

29. Enhancing Accessibility of Microblogging Messages Using Semantic Knowledge

Xia Hu (Arizona State University), Lei Tang (Yahoo! Labs), Huan Liu (Arizona State University)

30. Imbalanced Sentiment Classification

Shoushan Li, Guodong Zhou, Zhongqing Wang (Soochow University), Sophia Yat Mei Lee (Hong Kong Baptist University), Rangyang Wang (Soochow University)

31. The Where in the Tweet

Wen Li (Delft University of Technology), Pavel Serdyukov (Yandex LLC), Arjen P. de Vries (CWI), Carsten Eickhoff, Martha Larson (Delft University of Technology)

32. Question Identification on Twitter

Baichuan Li (The Chinese University of Hong Kong), Xiance Si (Google), Michael R. Lyu, Irwin King (The Chinese University of Hong Kong), Edward Y. Chang (Google)

33. OpinioNetIt: Understanding the Opinions-People Network for Politically Controversial Topics

Rawia Awadallah (Max-Planck Institute for Informatics), Maya Ramanath (Indian Institute of Technology, Delhi), Gerhard Weikum (Max-Planck Institute for Informatics)

34. Predicting the Uncertainty of Sentiment Adjectives in Indirect Answers

Mitra Mohtarami, Hadi Amiri (National University of Singapore), Man Lan (Institute for Infocomm Research), Chew Lim Tan (National University of Singapore)

35. Sentiment Classification via L2-norm Deep Belief Network

    Tao Liu (Renmin University of China), Minghui Li (Microsoft Asian Research and Development Group), Shusen Zhou (Harbin Institute of Technology), Xiaoyong Du (Renmin University of China)

36. Domain Customization for Aspect-oriented Opinion Analysis with Multi-level Latent Sentiment Clues

    Honglei Guo, Huijia Zhu, Zhili Guo, Zhong Su (IBM Research China)

37. Accurate Information Extraction for Quantitative Financial Events

    Hassan H Malik, Vikas S Bhardwaj, Huascar Fiorletta (Thomson Reuters)

38. A Machine-Learned Proactive Moderation System for Auction Fraud Detection

    Liang Zhang, Jie Yang (Yahoo! Labs), Wei Chu (Microsoft), Belle Tseng (Yahoo! Labs)

39. Simultaneously Improving CSAT and Profit in a Retail Banking Organization

    Sameep Mehta, Ullas Nambiar, Vishal Batra, Sumit Negi, Prasad Deshpande, Gyana Praija (IBM Research India)

40. Coarse-to-Fine Classification via Parametric and Nonparametric Models for Computer-Aided Diagnosis

    Le Lu (Siemens Medical Solutions USA), Meizhu Liu, Xiaojing Ye (University of Florida), Shipeng Yu (Siemens Medical Solutions USA), Heng Huang (University of Texas, Arlington)

Demonstrations

Session: Demonstrations 1

Date: Tuesday 25th October 2011
Boasters: Argyll, 09:15-09:30
Demonstrations: Castle, 09:30-10:00, 12:30-14:00

01. Exploratory Search Over Social-Medical Data
    Haggai Roitman, Sivan Yogev, Yevgenia Tsimerman (IBM Research), Dae Won Kim (IBM Korea), Yossi Mesika (IBM Research)
02. Black Swan: Augmenting Statistics with Event Data
    Johannes Lorey, Felix Naumann, Benedikt Forchhammer, Andrina Mascher, Peter Retzlaff, Armin ZamaniFarahani, Soeren Discher, Cindy Faehnrich, Stefan Lemme, Thorsten Papenbrock, Robert Christoph Peschel, Stephan Richter, Thomas Stening, Sven Viehmeier (Hasso Plattner Institute)
03. A Data Mining System Based on SQL Queries and UDFs for Relational Databases
    Carlos Ordonez, Carlos Garcia-Alvarado (University of Houston)
04. Data-Thirsty Business Analysts need SODA - Search Over DAta Warehouse
    Lukas Blunschi (ETH Zurich), Claudio Jossen (Credit Suisse AG), Donald Kossmann (ETH Zurich), Magdalini Mori, Kurt Stockinger (Credit Suisse AG)
05. An Integrated Environment for Semantic Knowledge Work
    Aba-Sah Dadzie, Victoria Uren, Ziqi Zhang, Philip Webster (The University of Sheffield)
06. Editing Knowledge Resources: The Wiki Way
    Francesco Ronzano, Andrea Marchetti, Maurizio Tesconi (Institute of Informatics and Telematics IIT - CNR)
07. Marco Polo: A System for Brand-based Shopping and Exploration
    Nish Parikh, Neel Sundaresan (eBay Inc.)

Session: Demonstrations 2

Date: Wednesday 26th October 2011
Boasters: Argyll, 09:15-09:30
Demonstrations: Castle, 09:30-10:00, 12:30-14:00

01. Jasmine: A Real-time Local-event Detection System based on Geolocation Information Propagated to Microblogs
    Kazufumi Watanabe, Masanao Ochi (The University of Electro-Communication), Makoto Okabe (The University of Electro-Communication, JST PRESTO), Rikio Onai (The University of Electro-Communication)
02. Scalable Similarity Search of Timeseries with Variable Dimensionality
    Omar U. Florez, Curtis Dyreson (Utah State University)
03. RoSeS: A Continuous Query Processor for Large-scale RSS Filtering and Aggregation
    Jordi Creus Tomàs, Bernd Amann (Université Pierre et Marie Curie), Nicolas Travers (Conservatoire National des Arts et Métiers), Cristian Dan Vodislav (Université de Cergy-Pontoise)
04. Conkar: Constraint Keyword-based Association Discovery
    Mo Zhou, Yifan Pan, Yuqing Wu (Indiana University)
05. Interactive Reasoning in Uncertain RDF Knowledge Bases
    Timm Meiser, Maximilian Dylla, Martin Theobald (Max Planck Institute for Informatics)
06. Fu-Finder: A Game for Studying Querying Behaviours---Test Your Search-Fu
    Carly O'Neil, James Purvis, Leif Azzopardi (University of Glasgow)
07. PDFMeat: Managing Publications on the Semantic Desktop
    David Aumüller, Erhard Rahm (University of Leipzig)

Session: Demonstrations 3

Date: Thursday 27th October 2011
Boasters: Argyll, 09:15-09:30
Demonstrations: Castle, 09:30-10:00, 12:30-14:00

01. MEMSCALE: In-Cluster-Memory Databases
    Héctor Montaner, Federico Silla (Universitat Politècnica de València), Holger Fröning (University of Heidelberg), José Duato (Universitat Politècnica de València)
02. H-DB: A Hybrid Quantitative-Structural SQL Optimizer
    Lucantonio Ghionna, Gianluigi Greco, Francesco Scarcello (University of Calabria)
03. Health Conversational System based on Contextual Matching of Community-Driven Question-Answer Pairs
    Wilson Wong, John Thangarajah, Lin Padgham (RMIT University)
04. Annotating Knowledge Work Lifelog: Term Extraction from Sensor and Operation History
    Masayuki Okamoto, Nayuko Watanabe, Shinichi Nagano, Kenta Cho (Toshiba Corporation)
05. Entity Timelines: Visual Analytics and Named Entity Evolution
    Arturas Mazeika, Tomasz Tylenda, Gerhard Weikum (Max Planck Institute for Informatics)
06. PICASSO - Automated Soundtrack Suggestion for Multi-Modal Data
    Aleksandar Stupar, Sebastian Michel (Saarland University)
07. P2Prec: A Social-Based P2P Recommendation System
    Fady Draidi, Esther Pacitti (LIRMM), Didier Parigot, Guillaume Verger (INRIA)

Tutorials

Sessions	Room
Morning: Monday 24th October 2011	
Computational Geography	Shuna
Large-Scale Array Analytics: Taming the Data Tsunami	Jura
Large-scale Information Retrieval Experimentation with Terrier	Staffa
Statistical Information Retrieval Modelling: From Probability Ranking Principle to recent advances in diversity, Portfolio Theory, and beyond	Argyll 2
Web-Based Open-Domain Information Extraction	Argyll 1
Afternoon: Monday 24th October 2011	
Advances in Data Stream Mining for Mobile and Ubiquitous Environments	Shuna
Information Diffusion In Social Networks: Observing and Affecting What Society Cares About	Argyll 1
Information Retrieval Challenges in Computational Advertising	Staffa
Object Ranking	Argyll 2
Uncertain Schema Matching : The Power of not Knowing	Jura

Computational Geography

Speakers: Vanessa Murdock (Yahoo! Research), Gary Gale (Nokia Gate5)

Room: Shuna
Time: 09:00-12:30, Monday 24th October 2011

As technology moves to personalization and mobility, users expect their applications to be location savvy, and relevant to their lives with increasing detail. A person's geographic context includes their current and previous location, the things that surround them, their activity in a given place, as well as their thoughts and feelings in that place. Understanding this context allows us to personalize their experience and refine their interactions with an application, on a hyper-local level. The tutorial will cover four basic areas. The first is an overview of how geographies are represented, and how they are organized in gazetteers, using Geonames and GeoPlanet as examples. The second set of topics are an overview of the resources available to academic researchers. The third topic area will include an overview of the state of the art in modeling places, and discovering place boundaries. The final topic will be an overview of place-based applications, a set of open problems, and the needs of the industry. The aim is to give the participants an idea of what is already out there, and how to use the research to create a killer location-based app.

Large-Scale Array Analytics: Taming the Data Tsunami

Speakers: Peter Baumann (Center for Advanced Systems Engineering (CASE), Jacobs University)
Room: Jura
Time: 09:00-12:30, Monday 24th October 2011

Never before in history mankind has collected data at the rates we face today. Alone in 2002, an estimated 403 petabytes of data has been acquired, equivalent to all printed information ever created before. Earth orbiting satellites, as well as ground, airborne, and underwater sensors, space observatories scan their environment at unprecedented resolutions, giving rise to "Big Science". The same holds for the life sciences where genomic data, high-resolution scans, and other modalities are collected in steadily increasing streams. Social network analysis, OLAP, and stock exchange trading represent further examples, the latter involving real-time correlation of thousands of ticker time series resulting in terabytes of data to be analysed per single run. Summarized under Large-Scale Analytics, we are witnessing an exploding demand for flexible access to massive volumes of scientific and business data sets. Arguably a large class of these massive data is represented by multi-dimensional arrays. Consequently, large arrays pose new challenges to data modelling, querying, optimization, and maintenance - in short: we need Large-Scale Array Analytics.

This tutorial introduces to the topic from a database perspective. Aspects addressed include modelling, query languages, query optimization and parallelization, and storage management. High emphasis will be devoted to applications in "Big Science", particularly geo, space, and life sciences; real-life use cases will be presented and discussed which stem from our 15 years of experience with the open-source rasdaman array DBMS and our work on geo raster service standardization. We will highlight requirements, achievements, open research issues, and avenues for future research. Discussion will make use of real-life examples, many of which Internet connected participants can replay hands-on.

Large-scale Information Retrieval Experimentation with Terrier

Speakers: Rodrygo Santos, Richard McCreadie (University of Glasgow), Vassilis Plachouras (PRESANS)
Room: Staffa
Time: 09:00-12:30, Monday 24th October 2011

This tutorial aims to provide a practical introduction to conducting large-scale information retrieval (IR) experiments, using Terrier as an experimentation platform. In particular, Terrier provides an open-source, feature-rich, flexible, and robust environment for large-scale IR experimentation. This tutorial will cover the experimentation process end-to-end, from configuring Terrier to a particular experimental setting, to efficiently indexing a document corpus and retrieving from it, and to evaluating the outcome. The tutorial will cover how to use and extend the platform to one's own needs, and will be illustrated by practical research-driven examples. As a half-day tutorial, it will be split into two major sessions, with each session comprising both background information and practical demonstrations. In the first session, we will provide an overview of several aspects of large-scale IR experimentation, spanning areas such as indexing, data structures, query languages, and advanced retrieval models, and how these are implemented within Terrier. In the

second session, we will discuss how to extend Terrier to conduct one's own experiments in a large-scale setting, including how to facilitate the evaluation of non-standard IR tasks through crowdsourcing. The practical demonstrations will cover recent use cases identified from Terrier's online discussion forum, in order to provide attendees with concrete examples of what can be done within Terrier.

Statistical Information Retrieval Modelling: From Probability Ranking Principle to recent advances in diversity, Portfolio Theory, and beyond

Speakers: Jun Wang (University College London), Kevyn Collins-Thompson (Microsoft Research)

Room: Argyll 2

Time: 09:00-12:30, Monday 24th October 2011

Statistical modelling of Information Retrieval systems is a key driving force in the development of the information retrieval (IR) field. The objective of this tutorial is to provide a comprehensive and up-to-date introduction to statistical Information Retrieval modelling. Unlike many other theoretical IR tutorials offered in the past, we take a fresh and systematic perspective from the viewpoint of portfolio theory of information retrieval and risk management. A unified treatment and new insights will be given to reflect the recent developments of considering the ranked retrieval results as a whole. Recent research progress in diversification, risk management, and the portfolio theory of information retrieval will be covered, in addition to classic methods such as Maron and Kuhns, Probabilistic Indexing, Robertson-Sparck Jones model (the resulting BM25 formula) and language modelling approaches. The tutorial will also review the resulting practical algorithms of risk-aware query expansion, diverse ranking, IR metric optimization as well as their performance evaluations. Practical IR applications such as web search engines, multimedia retrieval, and collaborative filtering will also be introduced, as well as discussion of new opportunities for future research and applications that intersect among information retrieval, knowledge management, and databases.

Web-Based Open-Domain Information Extraction

Speaker: Marius Pasca (Google)

Room: Argyll 1

Time: 09:00-12:30, Monday 24th October 2011

This tutorial provides an overview of extraction methods developed in the area of Web-based open-domain information extraction, whose purpose is the acquisition of open-domain classes, instances and relations from Web text. The extraction methods operate over unstructured or semi-structured text. They take advantage of weak supervision provided in the form of seed examples or small amounts of annotated data, or draw upon knowledge already encoded within resources created strictly by experts or collaboratively by users. The tutorial teaches the audience about existing resources that include instances and relations; details of methods for extracting such data from structured and semi-structured text available on the Web; and strengths and limitations of resources extracted from text as part of recent literature, with applications in knowledge discovery and information retrieval.

Advances in Data Stream Mining for Mobile and Ubiquitous Environments

Speakers: Joao Gama (University of Porto), Shonali Krishnaswamy (Monash University), Mohamed Gaber (University of Portsmouth)

Room: Shuna

Time: 14:00-17:30, Monday 24th October 2011

Data streams is a topic born in databases and data warehousing communities that poses new challenges and problems for Data Mining and Machine Learning researchers. This tutorial will present the emerging state-of-the-art in developing the next generation of mobile and ubiquitous data stream processing algorithms, systems and applications. Basic knowledge of databases and data mining is assumed. The scope of the tutorial includes background theory of data stream mining, theoretical foundations of mobile/ubiquitous data stream mining and explanation of the algorithms that are the current state-of-the-art, as well as demonstration of real-world application case studies using the first integrated mobile data stream mining toolkit (Open Mobile Miner).

The key learning objectives of the tutorial are to enable understanding of the motivations, rationale and challenges of the emerging important area of data stream mining in mobile and ubiquitous environments, and in-depth knowledge of techniques for mobile/ubiquitous data stream mining and identification of the key research and application challenges in this domain.

Information Diffusion In Social Networks: Observing and Affecting What Society Cares About

Speakers: Divyakant Aggrawal, Ceren Budak, Amr El Addabi (UC Santa Barbara)

Room: Argyll 1

Time: 14:00-17:30, Monday 24th October 2011

With hundreds of millions of users worldwide, social networks provide great opportunities for social connection, learning, political and social change, as well as individual entertainment and enhancement in a wide variety of forms. Because many social interactions currently take place in online networks, social scientists have access to unprecedented amounts of information about social interaction. In addition to providing a platform for scientists to observe social interactions in large scale, online social networks are also changing the very nature of social interactions. People now have ready access to almost inconceivably vast information repositories that are increasingly portable, accessible, and interactive in both delivery and formation. Basic human activities have changed as a result, and new possibilities have emerged. For instance, the process by which people locate, organize, and coordinate groups of individuals with shared interests, the number and nature of information and news sources available, and the ability to solicit and share opinions and ideas across various topics have all undergone dramatic change with the rise of social networks.

Social networks have already emerged as a significant medium for the widespread distribution of news and instructions in mass convergence events such as the 2008 U.S. Presidential Election, the 2009 Presidential election in Iran, and emergencies like the landfall of Hurricanes Ike and Gustav in the fall of 2008. Use of social networks such as Facebook and Twitter has also been noted as providing great ease during the recent demonstrations in Middle East. In light of these notable outcomes, understanding information diffusion over online social networks is a critical research goal. This greater understanding can be achieved through data analysis, the development of reliable models that can predict outcomes of social processes, and ultimately the creation of applications that can shape the outcome of these processes. In this tutorial, we aim to provide an overview of such recent research based on a wide variety of techniques such as optimization algorithms, data mining, data streams covering a large number of problems such as influence spread maximization, misinformation limitation and study of trends in online social networks.

Information Retrieval Challenges in Computational Advertising

Speakers: Andrei Broder, Evgeniy Gabrilovich, Vanja Josifovski (Yahoo! Research)
Room: Staffa
Time: 14:00-17:30, Monday 24th October 2011

Web advertising supports a large swath of the Internet ecosystem. It brings revenue to countless publishers that rent space on their pages for advertising, from small mom-and-pop shops to major search engines. It also provides valuable traffic to numerous commercial Web sites and has fueled the development of Web search engines. The aim of this tutorial is to present the state of the art in the emerging area of computational advertising, and to expose the participants to the main research challenges in this exciting field. The tutorial does not assume any prior knowledge of Web advertising, and will begin with a comprehensive background survey of the topic. In this tutorial, we focus on one important aspect of online advertising, namely, using the user context to retrieve relevant ads. Moreover, computational advertising poses numerous challenges and open research problems in text summarization, natural language generation, named entity recognition, computer-human interaction, and others. Part of the tutorial will be devoted to recent research results as well as open problems, such as automatically classifying cases when no ads should be shown, and using natural language generation to automatically create advertising campaigns.

Object Ranking

Speakers: Roelof van Zwol (Yahoo! Research), Srinivas Vadrevu (Yahoo! Labs)
Room: Argyll 2
Time: 14:00-17:30, Monday 24th October 2011

Object ranking is an emerging discipline within information retrieval that is concerned with the ranking of objects, e.g. named entities and their attributes, in context of given a user query, or application. In this tutorial we will address the different aspects involved when building an object ranking system. We will present the state-of-the-art research in object ranking, as well as going into detail about our hands-on experiences when designing and developing the system for object ranking as it is in production at Yahoo! today. This allows for a unique mixture of research and development that will give the participants in-depth insights into the problem of object ranking. In this tutorial we describe the process of building a Web-scale object ranking system. In particular we address the construction of a knowledge base that forms the basis for the object ranking, and the generation of ranking features using external sources such as search engine query logs, photo annotations in Flickr, and tweets on Twitter. Next, we discuss machine learned ranking models using an ensemble of pair-wise preference models, and address various aspects of object ranking, including multi-media extensions, vertical solutions, attribute-aware ranking, and the importance of freshness. Last but not least, we address the evaluation methodologies involved to tune the performance of Web-scale object ranking strategies.

Uncertain Schema Matching: The Power of not Knowing

Speakers: Avigdor Gal (Technion)
Room: Jura
Time: 14:00-17:30, Monday 24th October 2011

Schema matching is the task of providing correspondences between concepts describing the meaning of data in various heterogeneous, distributed data sources. Schema matching is one of the basic operations required by the process of data and schema integration, and thus has a great effect on its outcomes, whether these involve targeted content delivery, view integration, database integration, query rewriting over heterogeneous sources, duplicate data elimination, or automatic streamlining of workflow activities that involve heterogeneous data sources. Although schema matching research has been ongoing for over 25 years, only recently a realization has emerged that schema matchers are inherently uncertain. Since 2003, work on the uncertainty in schema matching has picked up, along with research on uncertainty in other areas of data management.

This tutorial presents various aspects of uncertainty in schema matching within a single unified framework. We introduce basic formulations of uncertainty and provide several alternative representations of schema matching uncertainty. Then, we cover two common methods that have been proposed to deal with uncertainty in schema matching, namely ensembles and top-K matchings, and analyze them in this context. We conclude with a set of real-world applications and in particular, the use of uncertain schema matching in NisB, a European project that is aimed at harnessing an evolving Wisdom of the Network to dynamically connect businesses to attain common business goals.

Workshops

	Room
Monday 24th October 2011	
Data and Text Mining in Biomedical Informatics (DTMBIO'11)	Barra
BooksOnline'11: Online Books, Complementary Social Media and Crowdsourcing	Argyll 3
DETecting and Exploiting Cultural diversiTy on the Social Web (DETECT 2011)	Malin
Patent Information Retrieval (PaIR '11)	Orkney
Friday 28th October 2011	
Search and Mining User-generated Contents (SMUC 2011)	Argyll 1
Web Science and Information Exchange in the Medical Web (MedEx 2011)	Hebrides
Collaborative Information Retrieval (CIR2011)	Jura
Data infrastructurEs for Supporting Information Retrieval Evaluation (DESIRE 2011)	Rockall
Workshop for Ph.D. Students in Information and Knowledge Management (PIKM 2011)	Shuna
Managing Interoperability and Complexity in Health Systems (MIXHS'11)	Orkney
Cloud Data Management (CloudDB 2011)	Malin
Search and Mining Entity-Relationship Data (SMER'11)	Argyll 2
Exploiting Semantic Annotations in Information Retrieval (ESAIR 2011)	Argyll 3
Large-Scale and Distributed Information Retrieval (LSDS-IR 2011)	Barra
Data Warehousing and OLAP (DOLAP 2011)	Staffa

Data and Text Mining in Biomedical Informatics (DTMBIO'11)

Time: 09:00-17:30, Monday 24th October 2011
Room: Barra
Website: http://biosoft.kaist.ac.kr/dtmbio/dtmbio2011/home.html

The focus of this workshop is to bring together researchers who are interested in applying advanced data and text mining techniques to improve communication, understanding and management of medical information.

Doheon Lee (KAIST, Korea)
Sophia Ananiadou (University of Manchester, UK)
Shamkant Navathe (Georgia Tech, USA)
Min Song (NJIT, USA)

BooksOnline'11: Online Books, Complementary Social Media and Crowdsourcing

Time: 09:00-17:30, Monday 24th October 2011

Room: Argyll 3

Website: http://research.microsoft.com/booksonline11/

In recent years online book content has increased dramatically through the digitization of physical books and electronic publishing. To match the great momentum in creating on-line book repositories, the BooksOnline workshop series aims to foster research initiatives that are focused on innovation opportunities and challenges created by large collections of digital books. This year, the workshop focuses more explicitly and deliberately on exploring the role of social media and crowdsourcing in the context of online books.

Gabriella Kazai (Microsoft Research, UK)
Peter Brusilovsky (University of Pittsburgh, USA)
Carsten Eickhoff (Delft University of Technology, The Netherlands)

DETecting and Exploiting Cultural diversiTy on the Social Web (DETECT 2011)

Time: 09:00-17:30, Monday 24th October 2011

Room: Malin

Website: http://detect.uni-koblenz.de/

The workshop DETECT (an acronym for DETecting and Exploiting Cultural diversiTy on the social web) aims to facilitate inter-disciplinary research on complex dependencies between culture, language, and content on the social web. We aim at bringing together researchers and practitioners dealing with inter-cultural, multi-lingual and multi-national information environments in distinct contexts, and discover synergies between their research fields.

Sergej Sizov (Karlsruhe Institute of Technology, Germany)
Philipp Sorg (University of Koblenz, Germany)
Thomas Gottron (University of Koblenz, Germany)
Stefan Siersdorfer (L3S Research Centre, Germany)

Patent Information Retrieval (PaIR '11)

Time: 09:00-17:30, Monday 24th October 2011
Room: Orkney
Website: http://www.ifs.tuwien.ac.at/pair2011

Patent Information Retrieval specialists in the 21st century face many challenges. They must search very large numbers of documents in multiple languages, which express complex technological concepts through sophisticated legal clauses. Despite a great deal of theoretical development in Information Retrieval techniques, advanced search tools for patent professionals are still in their infancy. Since 2008, the PaIR Workshop brings together the IP and the IR communities and promotes a better understanding of the needs of the industry and of the available scientific tools.

Mihai Lupu (Information Retrieval Facility, Austria)
Andreas Rauber (Vienna University of Technology, Austria)

Search and Mining User-generated Contents (SMUC 2011)

Time: 09:00-17:30, Friday 28th October 2011
Room: Argyll 1
Website: http://ir.ii.uam.es/smuc2011/

The 3rd International Workshop on User-generated Contents (SMUC 2011) represents a multidisciplinary forum for researchers and practitioners that work on knowledge extraction, management and exploitation approaches in Social Media, and belong to different, but complementary fields such as Web (content/structure/usage) mining, information retrieval and filtering, opinion mining and sentiment analysis, user modeling, personalization and recommendation, and multimedia processing and retrieval.

Ivan Cantador (Universidad Autónoma de Madrid, Spain)
Francisco M. Carrero (BrainSINS & Universidad Europea de Madrid, Spain)
Jose C. Cortizo (BrainSINS & Universidad Europea de Madrid, Spain)
Paolo Rosso (Universidad Politécnica de Valencia, Spain)
Markus Schedl (Johannes Kepler University, Austria)
Jose A. Troyano (Universidad de Sevilla, Spain)

Web Science and Information Exchange in the Medical Web (MedEx 2011)

Time: 09:00-17:30, Friday 28th October 2011
Room: Hebrides
Website: http://meco-project.eu/medex2011

The amount of Social Media Data dealing with medical and health issues increased significantly in the last couple of years. Medical Social Media Data now provides a new source of information within information gaining contexts. Facts, experiences, opinions or information on behaviour can be found in the Medicine 2.0 and could support a broad range of applications. Health organizations monitor online news repositories and web pages for relevant data on epidemiological events. Physicians learn about the experiences of their colleagues provided through social media platforms: such as weblogs, or forums. Moreover, patients can search for information or experiences of others, which can lead to patient empowerment. This workshop is devoted to the technologies for dealing with social- and multi media for medical information gathering and exchange.

Kerstin Denecke (L3s Research Center, Germany)
Peter Dolog (Aalborf University, Denmark)

Collaborative Information Retrieval (CIR2011)

Time: 09:00-17:30, Friday 28th October 2011
Room: Jura
Website: http://cir2011.fxpal.com

Support for explicit collaboration is an essential part of many information seeking activities. Explicit collaboration differs from recommendation systems and collaborative filtering in that the people engaged in information seeking have an explicitly shared information need. In this third installment in our workshop series, we focus on various aspects of collaboration information retrieval related to algorithms and interfaces, and explore how various aspects of these systems can support collaboration, including aspects of awareness, synergy, effectiveness, and efficiency. We invite participation through posters, presentations, and demonstrations. One key aspect of this workshop will involve hands-on demonstrations of collaborative search systems on real datasets to build a collective experience with such systems. For more information on the workshop, please see our web site at http://cir2011.fxpal.com. Follow our progress on Twitter at #cir2011 .

Gene Golovchinsky (FX Palo Alto Laboratory, USA)
Jeremy Pickens (Catalyst Repository Systems, USA)
Meredith Ringel Morris (Microsoft Research, USA)
Juan Manuel Fernández-Luna (Universidad de Granada, Spain)
Juan F. Huete (Universidad de Granada, Spain)
Julio Rodríguez (Universidad de las Ciencias Informáticas, Cuba)

Data infrastructurEs for Supporting Information Retrieval Evaluation (DESIRE 2011)

Time: 09:00-17:30, Friday 28th October 2011
Room: Rockall
Website: http://www.promise-noe.eu/events/desire-2011/

Over the years, the information retrieval area has produced a vast set of large test collections which have become the main benchmark tools of the area and ensure reproducible and comparable experiments. However, these same collections have not been organised into coherent and integrated infrastructures which make them accessible, searchable, citable, exploitable, and re-usable to all possibly interested researchers, developers, and user communities. It is thus time for these three communities – information retrieval, databases, and knowledge management – to join efforts, meet, and cooperate to address the problem of envisaging and designing useful infrastructures able to coherently manage pertinent data collections and sources of information, and so take concrete steps towards developing them. Therefore, the main objective of the workshop is to gather together experts from these three areas, to encourage them to recognise the urgency of addressing the problem in an integrated and coherent way, and to coordinate efforts towards drawing a roadmap and suggesting best practices for an effective solution of the problem.

Maristella Agosti (University of Padua, Italy)
Nicola Ferro (University of Padua, Italy)
Costantino Thanos (ISTI-CNR, Italy)

Workshop for Ph.D. Students in Information and Knowledge Management (PIKM 2011)

Time: 09:00-17:30, Friday 28th October 2011
Room: Shuna
Wesbsite: http://webdam.inria.fr/PIKM2011/

This workshop is for doctoral students conducting research in one or more of the areas at CIKM, i.e., databases, information retrieval and knowledge management. Papers in this workshop consist of dissertation proposals of Ph.D. students or sub-problems of their dissertation, and include a proposed solution with preliminary evaluation.

Anisoara Nica (Sybase, Canada)
Fabian M. Suchanek (INRIA, France)

Managing Interoperability and Complexity in Health Systems (MIXHS'11)

Time: 09:00-17:30, Friday 28th October 2011
Room: Orkney
Website: http://informatics.mayo.edu/CNTRO/index.php/Events/MIXHS11

MIXHS'11 is a forum focussing on the latest advances in bio-medical semantics and electronic health information & knowledge management research. Issues of biomedical data-mining in large heterogeneous clinical data-sets, information retrieval and extraction in multiple medical repositories, the management of complexity and the coherent update of knowledge in medicine, clinical standards interoperability in distributed health systems and the patient Electronic Health Record (EHR) are now becoming critical to implementing enterprise and nationwide health systems. Topics of interest include knowledge management activities seeking to address these issues by: (i) using clinical data mining, information extraction and retrieval (ii) standardisation of clinical classifications, large scale biomedical terminologies and ontologies development (i.e. SNOMED CT), (iii) the standardisation of clinical information transfer formats (i.e. HL7) and (iv) structuring of clinical documents (Clinical Document Architecture, CDA & EHR). The workshop provides a forum for sharing design and implementation solutions for managing clinical data and integrating current and future e-health systems infrastructures.

Matt-Mouley Bouamrane (University of Glasgow, UK)
Cui Tao (Mayo Clinic, USA)

Cloud Data Management (CloudDB 2011)

Time: 09:00-17:30, Friday 28th October 2011
Room: Malin
Website: http://www.clouddb.org/CloudDB11

This workshop is dedicated to address the challenges in managing large collections of data in cloud computing environment, and identifying information of value to business, science, government, and society. The huge size of data in cloud computing environments poses big challenges on the infrastructure for data storage which can achieve economical scaling to more than Petabyte, massively parallel query execution, and facilities for analytical processing. Meanwhile, the emergence of large data centers and cluster computers has created a new business model, cloud-based computing, where businesses and individuals can rent storage and computing capacities, rather than making significant capital investments to construct and provision large-scale computer facilities. As cloud computing is becoming increasingly popular over the world, data management in cloud computing environment is becoming a hot research issue. The CloudDB'2011 workshop aims to provide a forum for researchers and practitioners to exchange ideas and progresses in the cloud data management area.

Meng Xiaofeng (Renmin University of China, P.R. China)
Ding Zhiming (Chinese Academy of Sciences, P.R. China)
Hu Haibo (Hong Kong Baptist University, Hong Kong)

Search and Mining Entity-Relationship Data (SMER'11)

Time: 09:00-17:30, Friday 28th October 2011
Room: Argyll 2
Website: http://sysrun.haifa.il.ibm.com/hrl/smer2011/

This workshop shall serve as an open forum for discussing the new research challenges in search and mining of large scale entity-relationship (ER) data extracted from multitude of unstructured and semi-structured data sources, driven by recent industry trends and requirements in various domains and increasing academic interest. The workshop will bring together researchers from different communities working on similar problems in the context of ER and other semantic data, allowing for cross-fertilization between areas. During the workshop, we will identify common problems and their various solution approaches in DB, KM, and IR.

Haggai Roitman (IBM Research - Haifa, Israel)
Ralf Schenkel (Saarland University and Max-Planck-Institute, Germany)
Marko Grobelnik (J. Stefan Institute, Slovenia)

Exploiting Semantic Annotations in Information Retrieval (ESAIR 2011)

Time: 09:00-17:30, Friday 28th October 2011
Room: Argyll 3
Website: https://www.sics.se/events/esair2011

This workshop is about application of semantic annotation of information objects and information streams for for information access tasks such as search, retrieval, categorisation and related information refinement tasks. Semantic annotations refer to both manual and automatic linguistic annotations (such as named entities, semantic classes or roles, etc.) as well as user annotations (such as microformats, RDF, tags, etc.); geo-positional markers; temporal information; opinion, sentiment, and attitude; certainty and hedging and many other similar analyses. In some cases, semantic technologies are being deployed in active tasks, but there is no common direction to research initiatives nor in general technologies for exploitation of non-immediate textual information, in spite of a clear family resemblance both with respect to theoretical starting points and methodology. We believe further research is needed before we can unleash the potential of annotations - this workshop is intended to provide a path to formulate such research.

Omar Alonso (Microsoft, USA)
Jaap Kamps (University of Amsterdam, The Netherlands)
Jussi Karlgren (SICS Stockholm, Sweden)

Large-Scale and Distributed Information Retrieval (LSDS-IR 2011)

Time: 09:00-17:30, Friday 28th October 2011
Room: Barra
Website: http://www.lsdsir.org/

The growth of the Web and user bases lead to important performance problems for large-scale distributed information retrieval (IR) systems. Scalability and efficiency of these systems also have an impact on their effectiveness. The LSDS-IR'11 workshop expects research contributions that aim to create scalable and efficient large-scale IR systems. The workshop also expects contributions that propose different ways of leveraging diversity and multiplicity of resources available in distributed systems.

B. Barla Cambazoglu (Yahoo! Research, Spain)
Claudio Lucchese (ISTI-CNR, Italy)

Data Warehousing and OLAP (DOLAP 2011)

Time: 09:00-17:30, Friday 28th October 2011
Room: Staffa
Website: http://si.deis.unical.it/~cuzzocrea/DOLAP2011/

This workshop synergistically connects the academic community and industry practitioners working on data warehousing and on-line analytical processing. It provides an international forum where both researchers and practitioners can share their findings in theory, systems and practical experiences.

Alfredo Cuzzocrea (ICAR-CNR & University of Calabria, Italy)
Il-Yeol Song (Drexel University, USA)
Karen Davis (University of Cincinnati, USA)

Food & Drink

Restaurants

Near Crowne Plaza		Near to City Chambers	
Bukharah Lorne Hotel/Sauchiehall St	Indian £££	Arisaig Merchant Square (Candleriggs)	Scottish £££
Crabshakk 1114 Argyle St	Fish ££££	Azzimo John St	Italian ££
Fanny Troloppes Argyle St	Scottish £££	Café Gandolfi Albion St	Scottish £££
India Quay Finnieston St	Indian ££	Café Andaluz St. Vincent Pl	Spanish ££
Lamora Argyle St	Italian ££	Corinthian Ingram St	Scottish/European £££
Lebowskis 1008 Argyle St	Scottish Pub Food ££	Dahkin Candleriggs	Indian £££
McDonalds Finnieston St	(needs no explanation) £	Pizza Express Queen St	Pizza ££
Mother India 28 Westminster Terrace/Sauchiehall St	Indian £££	Ichiban Queen St	Sushi/Noddle bar £
Mother India Cafe 1355 Argyle St	Indian ££	Koolba Candleriggs	Indian ££
Shilla 1138 Argyle St	Korean £	Panchoe Villa's Bell St	Mexican ££
The Sisters Kelvingrove St/Sauchiehall St	Scottish £££	Qua Ingram St	Italian ££
The 78 Kelvinhaugh St	Vegitarian £	Rogano Exchange Pl	Fish £££
Villa Toscana 1078 Argyle St	Italian £	Sizzlers Steakhouse Merchant Square (Candleriggs)	Surf n'turf £££
Yen Tunnel St	Chinese ££	Thali Albion St	Indian ££

Pubs (most do food too)

Near to Crowne Plaza		Near to City Chambers	
Ben Nevis Argyle St	Lebowskis 1008 Argyle St	Sloans Argyle Arcade (off Argyle St)	Corinthian Ingram St
The Goat Argyle St	Big Slope Kelvingrove St/Sauchiehall St	Horse Shoe Bar Drury St	Beer Café Candleriggs
The Park Bar Argyle St	Gazelle Argyle St	City Merchant Candlerigs	Mercado Bar Espagnol Bell St
See also: Ashton Lane, Byres Rd, Woodlands Rd		See also: Merchant Square, Candleriggs	

City map in delegate bag

Social Programme

Whisky Distillery Visit

Date: Sunday 23rd October 2011
Time: 19:00-21:00
Venue: Auchentoshan Distiller (by bus from Crowne Plaza)

CIKM 2011 delegates have an opportunity to attend the Auchentoshan Scotch whisky distillery, near Glasgow. Buses leave conference venue at 7pm on Sunday 23rd October. Tickets must be bought in advance.

Conference Welcome Reception

Date: Monday 24th October 2011
Time: 19:00-21:00
Venue: Argyll, Crowne Plaza

We take pleasure in welcoming delegates registered to the main conference for a Welcome Reception, with drinks and canopies, held in the conference hotel (Crowne Plaza), Argyll room.

Civic Reception

Date: Tuesday 25th October 2011
Time: 19:00-20:30
Venue: City Chambers, George Square

After the first day of the conference, delegates should make their way to the Glasgow City Chambers, where the Provost (Mayor) is hosting a drinks reception for delegates, to welcome you to the city of Glasgow. Set in magnificent marble opulence in the Victorian-era building, this amounts to a stunning chance to view the historic city centre of Glasgow. See the city centre restaurants lists for suggested eating venues afterwards.
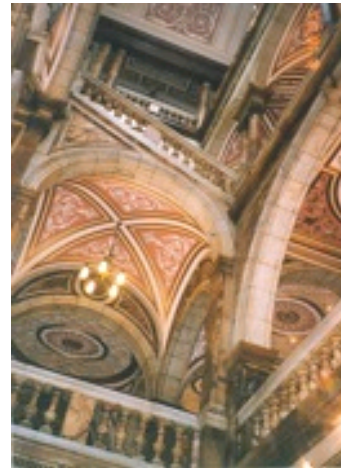
Banquet

Date: Wednesday 26th October 2011
Time: 19:00-23:00
Venue: Kelvingrove Art Gallery & Museum, Argyle St.

The conference banquet follows up the Victorian-era opulence of the City Chambers with the stunningly restored Kelvingrove Art Gallery & Museum, originally built for the 1888 International Expo. Delegates will be guided around the exhibits and art works, including arms & armour and natural history exhibits, in addition to an art collection covering the Old Masters, French Impressionists as well as more contemporary Scottish works. Following a champagne reception, delegates will be treated to a menu highlighting the finest of Scottish cuisine. Admission by conference badge.
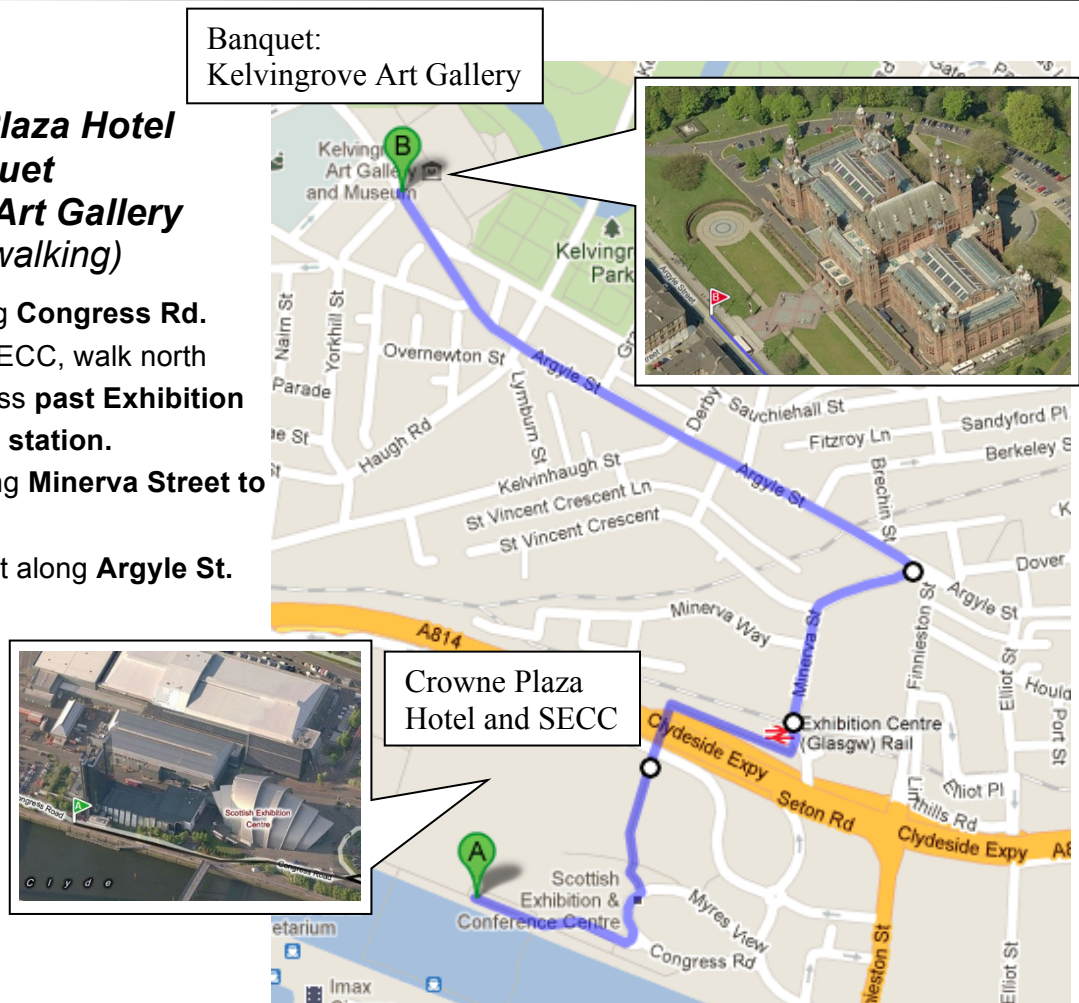
Directions

From Crowne Plaza Hotel To Civic Reception At Glasgow City Chambers (20-30 minutes)

1. Walk east along **Congress Rd.**
2. From front of SECC, walk north through pedestrian overpass to **Exhibition Centre railway station.**
3. Take a train east, Platform 1 (direction Glasgow Central/Motherwell/Larkhall/ Lanark) three stops to **Argyle St Station.** Trains are every 10 minutes.
4. Exit Argyle St station and walk north along **Miller St** to **George Square.**
5. **Glasgow City Chambers** is on the

Civic Reception: City Chambers

Argyle Street Station
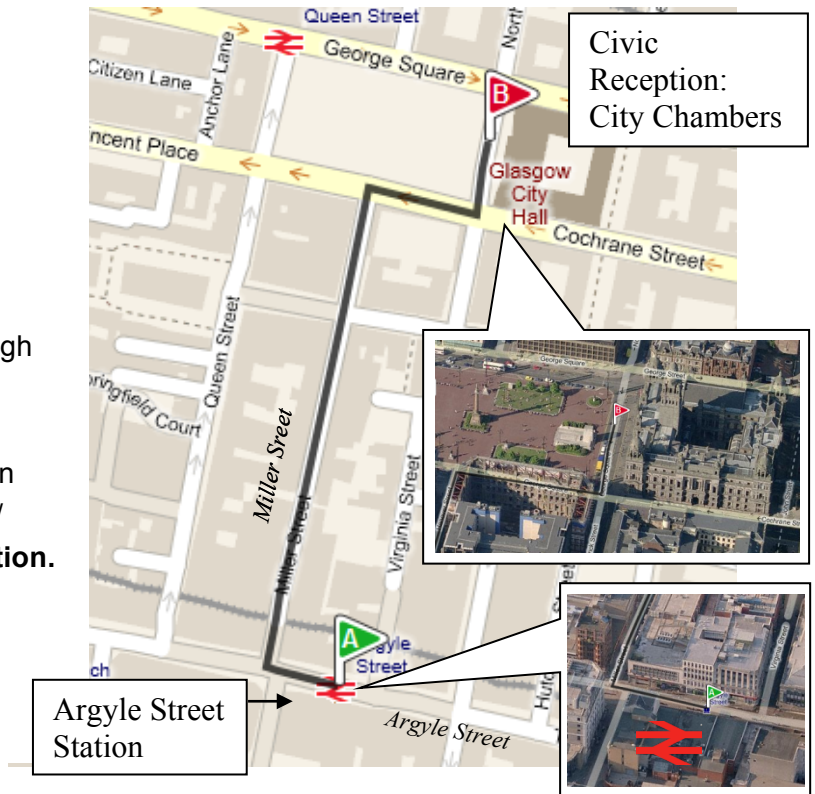
From Crowne Plaza Hotel To Banquet At Kelvingrove Art Gallery (20 minutes walking)

1. Walk east along **Congress Rd.**
2. From front of SECC, walk north through overpass **past Exhibition Centre railway station.**
3. Walk north along **Minerva Street to Argyle St.**
4. Walk north west along **Argyle St.**

Banquet: Kelvingrove Art Gallery

Crowne Plaza Hotel and SECC

Internet

Wireless

SSID: Swisscom

Username: EVENT/cikm2011

Password: 2011glasgow

Web & Social Media

http://www.cikm2011.org

Follow @cikm2011, or join in the conversation with the #cikm2011 hashtag

http://on.fb.me/1Wdrbe or Search for CIKM2011

http://bit.ly/drW6X0

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EXHIBITORS

CAMBRIDGE UNIVERSITY PRESS

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ORGANISATIONS

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