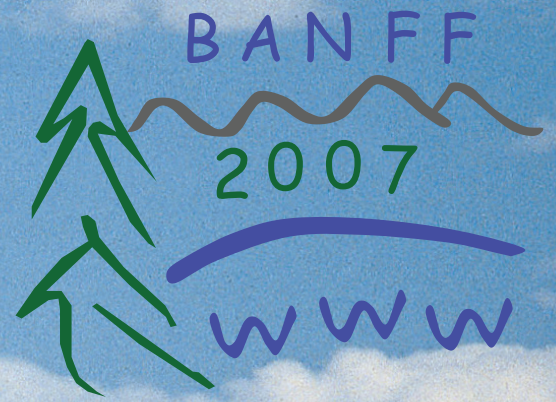


WWW2007



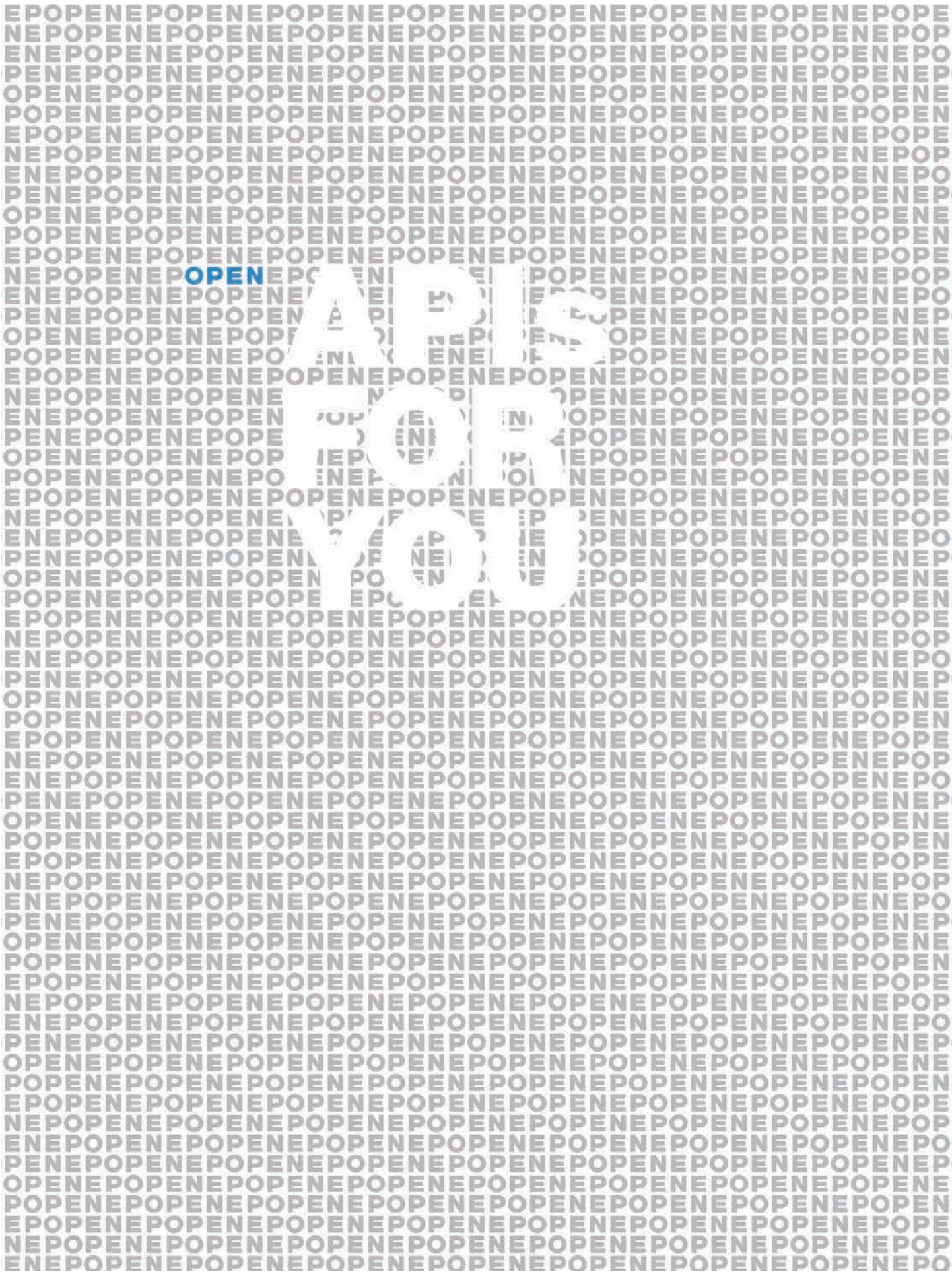
16th International World Wide Web Conference

Fairmont Banff Springs Hotel

Banff, Alberta, Canada

May 8-12, 2007

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Message from the Chair of IW3C2

On behalf of the International World Wide Web Conference Steering Committee (IW3C2), I welcome you to the 16th conference of our series. As you already know, the World Wide Web was first conceived in 1989 by Tim Berners-Lee at CERN in Geneva, Switzerland. The first conference, WWW1, was held at CERN in 1994. The conference series aims to provide the world a premier forum about the evolution of the Web, the standardization of its associated technologies, and the Web's impact on society and culture. These conferences bring together researchers, developers, users, and vendors – indeed all of you who are passionate about the Web and what it has to offer, now and in the future.

The IW3C2 was founded by Joseph Hardin and Robert Cailliau in August 1994 and has been responsible for the International WWW Conference series ever since. Except for 1994 and 1995 when two conferences were held each year, WWWn became an annual event held in late April or early May. The location of the conferences rotates among North America, Europe, and Asia. In 2002 we changed the conference designator from a number (1 through 10) to the year it is held; i.e., WWW11 became known as WWW2002, and so on. You may browse our website <http://www.iw3c2.org/> for information on past and future conferences.

I wish to recognize our long-term partner, the World Wide Web Consortium (W3C), who has contributed a significant part of the conferences' contents since the very beginning. We also appreciate the cooperation of ACM and IFIP. Together they help make our conferences the best in the Web area.

To the participants of previous conferences: it is nice to see you again! To the new delegates: it is nice to see you here! To everyone: we hope to see you in Beijing at WWW2008!

Vincent Shen, Hong Kong University of Science and Technology

Message from the General Chairs

On behalf of the International World Wide Web Conference Steering Committee (IW3C2) and the University of Calgary, we are delighted to welcome you to the 16th International World Wide Web Conference (WWW2007) in Banff. The WWW conference is the premier international forum for sharing the latest information about the Web, its technologies, and its future evolution.

We have an excellent conference lined up for you. WWW2007 received a record number of refereed paper submissions this year, and accepted just under 15% of them. Complementing the high quality papers are 8 exciting workshops, 12 informative tutorials, 7 expert panels, about 100 posters with late-breaking results, plus the always-popular DevTrack and W3C track offerings. Bonus events include a WOW tutorial and a look at the history of the Web. A busy week indeed!

It is difficult to estimate the time and effort required to organize a conference of this magnitude, but the task is tractable with the right organizing committee at your command. Many people have helped make this conference a success. Particularly demanding is the task of the Program Chairs: we thank Peter Patel-Schneider and Prashant Shenoy for their many hours of work on the conference. The high quality of the technical program owes much to their efforts, as well as the efforts of the track chairs, deputy chairs, program committee, and external reviewers.

The Local Organizing Committee did everything we asked of them, and more. EventPlan served as the conference PCO, dealing with many logistical issues, including hotel contracts, overflow hotels, travel information, and budget. Key20 Media (formerly QuestMedia) did a wonderful job with the WWW2007 sponsorship program. Denilson Barbosa did an excellent job publicizing the conference, with print ads in CACM and regular monthly newsletters. We thank Camille Sinanan for her super-human efforts as Registration Chair and financial officer. Lisa Higham managed our student travel award program. Sue Williamson designed conference promotional material, with photos courtesy of the Banff/Lake Louise Tourism Bureau. The IW3C2 and WWW2006 gave valuable advice and support at crucial moments. The Banff Springs Hotel personnel, especially Barb Wallace, assisted greatly with our conference planning. Gwen, Nathan, Qian, and Chris handled the Web site, program guide, and CD, and the WWW2007 volunteer team coordinated by John Miller helped make everything run smoothly this week.

We wish to thank our four plenary speakers (Tim Berners-Lee, Prabhakar Raghavan, Bill Buxton, and Dick Hardt) for sharing their insights, as well as the other authors and presenters for their contributions. We also thank our sponsors (especially AOL!) for their generous financial contributions to the conference.

Thank you all for attending WWW2007. Enjoy the conference, the hotel, the food, the beautiful mountain scenery, and the wonderful spring weather! Our blog awaits your comments.

Carey Williamson, University of Calgary

Mary Ellen Zurko, IBM

Message from the Program Chairs

On behalf of the WWW2007 Program Committee, we are delighted to welcome you to WWW2007, the 16th conference in the World Wide Web conference series.

The number of submissions to the refereed papers track and their quality has grown over the years. This year we had a record 755 submissions, of which we accepted 111 papers (a 14.7% acceptance rate). In response to the growing interest from the research community, we added a fourth day to the refereed papers track program, which allowed us to accept approximately 20% more papers than previous years. Despite this increase, many good papers had to be turned away.

The refereed papers track consists of thirteen research areas. This year, we introduced two new tracks – Web Services and XML and Web Data, which were formed by splitting the old “XML and Web Services” track into two new tracks. We also eliminated the “Alternate papers tracks” by folding those research areas into the regular refereed paper tracks. Thus, Technology for Developing Regions and Industrial Practice and Experience were regular refereed paper tracks this year and submissions were subjected to the same process as other tracks. We are pleased to report that both sets of changes were successful—the new tracks drew a healthy number of submissions and the quality of submissions to the new and the former alternate tracks were comparable to the other tracks. The table below summarizes the number of submissions and the number of accepted papers in each track.

Track	Submissions	Accepts
Browsers and User Interfaces	48	6
Data Mining	105	14
E* Applications	52	6
Industrial Practice and Experience	22	4
Performance and Scalability	30	7
Pervasive Web and Mobility	11	3
Search	140	20
Security, Privacy, Reliability and Ethics	63	10
Semantic Web	114	16
Technology for Developing Regions	20	4
Web Engineering	40	7
Web Services	56	8
XML and Web Data	52	6

All papers underwent a rigorous review process by the technical program committee: each paper was reviewed by at least three reviewers, followed by an online discussion phase to reconcile conflicting opinions. Candidate accept, borderline and controversial papers were discussed at length at a two day program committee meeting, which was attended by all track and deputy chairs. Some track chairs attended the meeting via audio conferencing from a satellite California site. We are pleased with the final outcome and present to you a technical program comprising 111 papers, all of which are of the highest standard.

The task of putting together the technical program of a large conference such as WWW2007 is a substantial endeavor. Many people contributed to the success of the technical program. We would like to thank the entire WWW2007 program committee for their hard work and dedication. The general chairs Mary Ellen Zurko and Carey Williamson have been extremely supportive in a multitude of ways. Special thanks to Andrei Voronkov for his help with the EasyChair web reviewing. Thanks to Alcatel-Lucent Bell Labs for hosting the Program Committee meeting, to Google California for hosting the satellite site for the PC meeting, and to Lisa Tolles of Sheridan Printing for assembling the conference proceedings.

Last but not least, we would like to thank the numerous authors for submitting excellent papers and to the attendees for making the conference a success.

Peter F. Patel-Schneider
Bell Labs Research, USA

Prashant Shenoy
University of Massachusetts Amherst, USA

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Denis Sosnoski, Sosnoski Software Solutions, New Zealand
Tony Storey, IBM, UK
Japjit Tuli, Google, USA
William Vambenepe, Hewlett-Packard, USA
Steve Vinoski, IONA Technologies, USA
Stuart Wheeler, Arjuna Technologies, UK
Michal Zaremba, Digital Enterprise Research Institute, Ireland

XML and Web Data

Chair: Mark Baker, Coactus, Canada
Deputy: Juliana Freire, University of Utah, USA

Sihem Amer-Yahia, Yahoo! Research, USA
Denilson Barbosa, University of Calgary, Canada
Michael Benedikt, Bell Labs, Lucent, USA
Angela Bonifati, Icar-CNR, Italy
John Boyer, IBM, USA
Michael Champion, Microsoft, USA
Chee Yong Chan, National University of Singapore, Singapore
Micah Dubinko, Yahoo!, USA
Wenfei Fan, University of Edinburgh, Scotland
Carlos Heuser, UFRGS, Brazil
Ken Holman, Crane Softwrights, Canada

Christoph Koch, Saarbruken, Germany
Guido Moerkotte, University of Mannheim, Germany
Fatma Ozcan, IBM Almaden, USA
Tamer Ozsu, University of Waterloo, Canada
Raghu Ramakrishnan, Yahoo! Research, USA
Maya Ramanath, Max-Planck-Institut, Germany
Rich Salz, IBM, USA
Sunita Sarawagi, IIT Bombay, India
Altigran Silva, UFAM, Brazil

Posters

Chair: Xiaodong Zhang, Ohio State University, USA
Deputy: Vova Soroka, IBM Haifa, Israel

Karine Barzilai-Nahon, University of Washington, USA
Brian Davison, Lehigh University, USA
Ido Guy, Technion, Israel Institute of Technology, Israel
Michal Jacovi, IBM Haifa Research Lab, Israel
Xuxian Jiang, George Mason University, USA
Quentin Jones, New Jersey Institute of Technology, USA
Chung-Ta King, National Tsinghua University, Taiwan
Santosh Kumar, University of Memphis, USA
Alex Liu, Michigan State University, USA
Dong Lu, Ask.com, USA
Natalia Marmasse, Google, USA
Gilad Ravid, University of Southern California, USA
Eyal Sonsino, IBM Research, Israel
Hongwei Zhang, Wayne State University, USA

Tutorials and Workshops

Chair: Marc Najork, Microsoft, USA
Deputy: Aya Soffer, IBM Haifa, Israel

Daniel Appelquist, Vodafone, UK
Ricardo Baeza-Yates, Yahoo!, Spain

David Carmel, IBM, Israel
Fred Douglass, IBM, USA
Piero Fraternali, University of Milan, Italy
Martin Gaedke, University of Karlsruhe, Germany
Carole Goble, University of Manchester, UK
Ian Horrocks, University of Manchester, UK
Bing Liu, University of Illinois at Chicago, USA
Wei-Ying Ma, Microsoft Research Asia, China
Lloyd Rutledge, CWI, The Netherlands
Massimo Santini, University of Milan, Italy
Steffen Staab, University of Koblenz, Germany
Dan Suciu, University of Washington, USA
Terry Winograd, Stanford University, USA

Developers Track

Chair: Danny Ayers
Deputy: Mark Nottingham, Yahoo! Inc, USA

Mark Baker, Coactus, Canada
Ian Bicking
Chris Bizer, Freie Universitat Berlin, Germany
Dan Brickley
Elliot Rusty Harold
Bill de Hora
Yves Lafon
Thomas Roessler, W3C/ERCIM, France
James Tauber

W3C Track

Chair: Marie-Claire Forgue, W3C, France

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WWW2007 Plenary Talks



Tim Berners-Lee (Wednesday, May 9)

The Two Magics of Web Science

Abstract

Web Science, of course, is largely engineering, as is computer science. But Web Science is different. When you design a new Web technology, it involves both technical protocols and social conventions. These work together to produce the new system, a computer-mediated interaction between two people. The first magic (process we don't understand) is when that interaction between two people scales to produce a new macroscopic phenomenon. The link between the microscopic and the macroscopic is fascinating. When we look at our macroscopic world and sigh, and wish it were better, it then takes a creative magic to see what new microscopic design could have the right effect. The creative leap of many neurons, and the collaboration of many people are the most exciting parts of the whole process, and what the Web has been about from day one.

Biographical Information:

A graduate of Oxford University, England, Tim Berners-Lee holds the 3Com Founders chair and is a Senior Research Scientist at the Laboratory for Computer Science and Artificial Intelligence (CSAIL) at the Massachusetts Institute of Technology (MIT). He is co-Director of the new Web Science Research Initiative (WSRI) and is a Chair in the Computer Science Department at the University of Southampton, UK. He is the Director of the World Wide Web Consortium (W3C), founded in 1994.

In 1989 he invented the World Wide Web, an internet-based hypermedia initiative for global information sharing while at CERN, the European Particle Physics Laboratory. He wrote the first web client and server in 1990. His specifications of URIs, HTTP and HTML were refined as Web technology spread.

Over the years, Tim has received many international awards, including The MacArthur Foundation "Genius" Grant, Japan Prize, the Prince of Asturias Foundation Prize, the Millennium Technology Prize, and Germany's Die Quadriga Award. In 2001 he became a fellow of the Royal Society. Widely recognized as one of the greatest visionaries of our time, Tim Berners-Lee was given the rank of Knight Commander (the second-highest rank in the Order of the British Empire) by Queen Elizabeth II on July 16, 2004. He is the recipient of the 2007 Charles Stark Draper Prize, given by the National Academy of Engineering (US).



Prabhakar Raghavan (Thursday, May 10)

Web N.O: What sciences will it take?

Abstract

The web has made a widely-hailed transition from its original incarnation to a putative state of "Web 2.0". This transition has stemmed from the clever use of AJAX and efficient grid computing to enhance a user's perception of responsiveness and interaction. In the process, the web experience has changed from a human interacting with a browser, to the emergence of a plethora of social media experiences. One consequence is that moving beyond the current notion of Web 2.0 demands research advances that straddle the boundaries between computational and social sciences, the latter including microeconomics, cognitive psychology and sociology. It also raises difficult questions on the use of data - ranging from the algorithmic to the societal.

This lecture will attempt to chart this interdisciplinary research agenda, arguing that the most influential research will require heavy interaction between these "hard" and "soft" sciences.

Biographical Information:

Prabhakar Raghavan has been Head of Yahoo! Research since 2005. His research interests include text and web mining, and algorithm design. He is a Consulting Professor of Computer Science at Stanford University and Editor-in-Chief of the Journal of the ACM. Raghavan received his PhD from Berkeley and is a Fellow of the ACM and of the IEEE. Prior to joining Yahoo, he was Chief Technology Officer at Verity; before that he held a number of technical and managerial positions at IBM Research.



Bill Buxton (Friday, May 11)
Design for the World Narrow Web
Abstract

It is easy to get lost in the enthusiasms of the moment. In the process, we tend to forget yesterday, much less 5 years ago. The thing to remember, however, is that tomorrow will be as different from today as today's blogs, your/my/his/her-face, RSS etc. are from the old days of alt.net.fooobar. No new news here. So what does happen when browsers almost disappear, and search as a distinct application is nothing more than a quaint memory?

If the notion of ubiquitous computing was right, we won't be thinking of web applications and services as software applications. The diversity of "web browsers" tomorrow will match the diversity of "ink browsers" (a.k.a. paper) today - in terms of diversity of form, function, location, and importance. It will be hard to decouple the "application" from the device, and the device from the location. And this, in turn, will accelerate the move towards the strong-specific from the weak-general approach to things that prevails today. And in all of this, the perceptible "web" that dominates the experience will more likely be the network that makes up the "society of devices" within the immediate physical context within which the interaction takes place.

In this context, the challenges of "social computing" will have as much (or more) to do with understanding, defining and exploiting the social mores of such "societies of devices" as it does with the social relationships of the people interacting over the network. These changes are going to force us to rethink our current assumptions about usage, as well as the economic and technological underpinnings of the web. Does this talk reveal all? No way! But besides asking questions and making assertions that may or may not be right, it does speak to how we can think about such things so that we might make some progress towards preparing for what is coming - whatever it is.

Biographical Information:

Bill Buxton is a designer and a researcher concerned with human aspects of technology. His work reflects a particular interest in the use of technology to support creative activities such as design, film making and music. In December 2005, he was appointed a Principal Researcher at Microsoft Research. Prior to that, he was Principal of his own Toronto-based boutique design and consulting firm, Buxton Design. He also has an association with Bruce Mau Design as honorary Chief Scientist. As well, he is an Associate Professor in the Department of Computer Science at the University of Toronto.

In 1995, Buxton received the Canadian Human-Computer Communications Society Achievement Award for his contributions to research in computer graphics and human-computer interaction. He also was selected as the New Media Visionary of the Year at the 2000 Canadian New Media Awards, and the Hollywood Reporter named him one of the 10 most influential innovators in the North American film industry in 2001.



Dick Hardt (Saturday, May 12)
An Identity Story
Abstract

Identity online is undergoing a substantive evolution as a new generation has grown up with the web and expects to do everything digitally. Accordingly, consumers are finding more commercial and social transactions migrating to the internet and citizens are benefiting from broad e-government services initiated by the public sector.

However not everything is digitally possible yet. While the web has made it easy to gather information online, users are unable to easily provide it, thus making consumer-oriented websites hungry for identity-related solutions. Additionally, most e-government services that can increase efficiency and provide better outcomes require knowledge of the citizen.

New user-centric, Identity 2.0 technologies, such as OpenID and Microsoft CardSpace are making it easy to move identity data. This fast-paced talk will provide perspectives on what is identity, where we are today and what might happen in the future.

Biographical Information:

A visionary in web applications and open source software, Dick Hardt has been active in technology development for two decades. His most recent venture, Sxip Identity, is the leader in Identity 2.0, creating simple, secure, and open solutions for the next generation of internet identity. Sxip provides on-demand identity management for the enterprise and user-centric solutions that securely automate the exchange of identity data online. Prior to Sxip, Dick founded ActiveState in 1997. Under his leadership as CEO, ActiveState became a leader in tools for open source programming languages and anti-spam software and was acquired by UK-based security company Sophos in 2003.

As a successful entrepreneur and technology expert, Dick is very involved in the technology and business community, holding a board position with the Vancouver Enterprise Forum and previously sitting on the boards of the British Columbia Technology Industry Association and Ludicorp (former parent company of Flickr).

Tutorials

Tuesday, May 8, 2007

Full Day Tutorial

Robust Management of Web and Grid Ontologies and Metadata

Empress, 8:30am to 5:30pm (HM1)

Presenters

Pinar Alper, University of Manchester
Oscar Corcho, University of Manchester
Miguel Esteban, Universidad Politécnica de Madrid
Sean Bechhofer, University of Manchester
Carole Goble, University of Manchester
David De Roure, University of Southampton

Abstract

Robust management of distributed ontologies and metadata is an important topic of research and development in distributed applications, since the use of explicit knowledge and metadata underpins sharing and brings interoperability, flexibility and extensibility to them. These topics have been addressed by researchers in the Semantic Grid area, which is defined as an extension of the current Grid where information and services are given well-defined meaning, better enabling computers and people to work in cooperation. System development in this area has evolved from a set of pioneer applications, with little systematic development, to a phase of systematic investigation, where more logical, consistent and ordered approaches are applied and where know-how transfer to middleware and applications has started.

The goal of this tutorial is to provide the attendees with both theoretical foundations and hands-on experience of robust semantic-aware middleware for the management of ontologies and metadata. In particular, attendees will:

- Learn the basic principles of managing ontologies and metadata in distributed applications and understand what Semantic Grid architectures, such as S-OGSA, propose;
- Gain hands-on experience with distributed ontology access and metadata management components, such as WS-DAIOnt-RDF(S), under standardisation at the Open Grid Forum, and the Semantic Binding Service;
- Learn how to use this architecture and these components to build applications.

Tuesday, May 8, 2007

Half Day Tutorials (Morning)

Foundations and Challenges of Web Advertising

Theatre, 8:30am to noon (CC1)

Presenters

Ricardo Baeza-Yates, Yahoo! Research
Andrei Z. Broder, Yahoo! Research
Prabhakar Raghavan, Yahoo! Research

Abstract

This tutorial covers the science and the technology behind web advertising. Participants are expected to be familiar with the basics of web search and the elements of algorithms. During the course of the tutorial we will review the various forms of web advertising served up by advertising networks such as Google, MSN and Yahoo! We

will then introduce the technical challenges and solutions for such problems as: given a user's search query, how do we determine which advertisement(s) to present? Of all the advertisers who wish to present their ads on a particular query, who should succeed? The solutions to these problems span the gamut from text mining and retrieval, to the theory of auctions and marketplaces. We conclude by discussing some of the ethical, legal and privacy challenges around the responsible use of data for web advertising.

User-Centric Identity for Web Applications

Oak, 8:30am to noon (HM1)

Presenter

Phillip Windley, Brigham Young University

Abstract

Identity is foundational to Web applications. Almost all interesting Web applications use identity, even if that identity is merely pseudonymous through cookies. Good, wide-area identity systems have not been available in the past, but recent advances suggest that they are now ready for use. These systems have been termed "user-centric identity systems".

User-centric identity is about working relationships and services between individuals and retailers, employers, membership bodies, and organizations of any kind. Because user-centric identity is not about a centralized solution, or anybody's silo, it solves different problems than the familiar ones of providing authentication and authorization services within a single organization, or federation between different organizations.

This tutorial will provide a survey of recent advances in user-centric identity technologies and a hands-on demonstration of how these technologies can be used to enhance Web applications.

Cost-Effective Engineering of Web Application Product Lines (Reuse Beyond Components: Exploiting Similarity Patterns)

Lacombe, 8:30am to noon (HM1)

Presenter

Stan Jarzabek, National University of Singapore

Abstract

Web Applications (WA) are developed and maintained under tight schedules. Much similarity across WAs creates opportunities for cutting development cost and easing evolution via reuse. This tutorial will show a practical way to exploit similarity patterns at architecture and code levels - to simplify the design of WAs, helping to meet the unique challenges of Web engineering. The approach is based on designing structures to represent similarity patterns in a generic way. Simplification of the WA design is then achieved by providing a mechanism to reuse such generic structures. We apply so-called mixed-strategy approach: Initial design is done using conventional methods (architectural/component design, ASP, JSP, PHP, J2EE or .NET). Then, we apply generative technique of XVCL to build generic structures to unify similarity patterns for which conventional techniques fail to provide effective generic solutions. By applying such mixed-strategy approach, on average, we reduce conceptual complexity (and maintenance effort) of a program solution by 60%, raising the levels of reuse by similar rates. We base the tutorial on industrial projects and on studies that explain in detail the technical underpinnings of the solutions.

Next Generation Web Services in Practice Norquay, 8:30am to noon (HM1)

Presenter

Charlton Barreto, Adobe Systems, Inc.

Abstract

As Web services continue to be realised in deployment, enterprising Web and application developers create new and innovative applications with their data. Service-Oriented Architecture (SOA) is the next step in software development, leveraging XML technologies and Web services, and driven by Business Process Management (BPM).

With SOA, developers are creating mashups, applications that combine data from multiple services to create something new. This tutorial covers standardized Web service technologies, both the current landscape and futures, and how they “mash” into SOA. The creation of a SOA mashup is chronicled, where Web service standards are applied to enable users to create their own mashups by swapping services, or even by picking and choosing data. This is demonstrated using an implementation of a Document Service Bus, an SOA mashup that uses dynamic rendered documents as a rich user interface and is entirely driven by these Web technologies.

Tuesday, May 8, 2007 Half Day Tutorials (Afternoon)

Learning to Rank in Vector Spaces and Social Networks Theatre, 1:30pm to 5:00pm (CC1)

Presenter

Soumen Chakrabarti, Indian Institute of Technology, Bombay

Abstract

We will study machine learning and associated numerical techniques to automatically learn ranking functions for entities represented as feature vectors as well as nodes in a social network. In the feature-vector scenario, an entity, e.g., a document x , is mapped to a feature vector in a d -dimensional space, and we have to search for a weight vector. This case corresponds to Information Retrieval in the vector space model. Training data consists of a partial order of preference among entities. We will study recent Bayesian and maximum-margin approaches to solving this problem, including recent efficient linear-time approximate algorithms. We will consider various ranking performance measures and how some of them create complications for learning algorithms. In the graph node ranking scenario, we will briefly review Pagerank, generalize it to arbitrary Markov conductance matrices, and consider the problem of learning conductance parameters from partial orders between nodes. In another class of formulation, the graph does not establish Pagerank or prestige-flow relationships between nodes, but encourages a certain smoothness between the scores of neighboring nodes. Some of these techniques have been used by Web search companies with very large query logs. We will review some of the issues and experience with applying the theory to practical systems. If time permits, we will look at general connections between score stability as against rank stability, and the connection between the stability of a score/rank-learning algorithm and its power to generalize to unforeseen test data.

Evaluating Web Accessibility: Automated, Manual and User-based Testing Oak, 1:30pm to 5:00pm (HM1)

Presenters

Helen Petrie, University of York

Christopher Power, University of York

Gerhard Weber, Christian Albrechts University of Kiel

Abstract

Building accessible sites that are vibrant, dynamic and very usable requires the use of good technologies and the application of testing. This tutorial will present a variety of methods for testing web accessibility. Through practical exercises attendees will learn how to conduct automatic, manual and user testing.

In the tutorial we cover the area of accessibility testing by:

- identifying needs of blind, visually impaired, deaf, and motor impaired users
- use of assistive technologies
- reviewing the Web Content Accessibility Guidelines
- discussing research on the accessibility of web sites
- demonstrating the use and limitations of automated tools
- linking guidelines with manual testing techniques
- demonstrating tools to support manual testing techniques
- enabling participants to apply methods for evaluation with disabled users, and
- providing an outlook to newer web technologies and their challenges for accessibility.

Attendees of the tutorial will be able to link accessibility with usability, as our research and experience with real-world Web sites has shown that an accessible site is more likely to be a usable site.

Deploying Web-scale Mash-ups by Linking Microformats and the Semantic Web Norquay, 1:30pm to 5:00pm (HM1)

Presenters

Dan Connolly, Massachusetts Institute of Technology

Harry Halpin, University of Edinburgh

Murray Maloney, Muzmo Inc.

Abstract

Recently, a plethora of technologies associated with the “Web 2.0” have been deployed. Among these technologies, “microformats” provide an easy-to-use way to structure conventional HTML markup with semantics, as shown by the deployment of microformats on popular services like LinkedIn and Upcoming.org. This presents a rich store of data for Web mash-up applications, if only the data could be easily extracted from HTML and could be integrated across multiple domains. The Resource Description Framework (RDF) provides semantics for sharing data across sources and domains, supporting Web-scale mash-ups.

GRDDL presents an easy-to-use way for authors of HTML and XML to have clients extract RDF from their data, and so serves among other things as a “low-cost” upgrade path to convert microformat data to RDF in order to integrate diverse data sources. Furthermore, we will cover how GRDDL can be used in a variety of XML contexts for data integration using real-world examples. This hands-on tutorial will present people a hands-on introduction to microformats, mash-ups, RDF, GRDDL, and ways of embedding RDF directly in HTML like RDFa.

**Web Workloads: Characterization, Modeling and Application
Lacombe, 1:30pm to 5:00pm (HM1)**

Presenters

Virgilio Almeida, Federal University of Minas Gerais
Daniel Menasce, George Mason University

Abstract

The study and design of Web applications and services require good models of the workloads to which these applications are subject. The Web is a complex system with hundreds of millions of users demanding services from thousands of applications. In order to understand the Web, one needs first to understand the workload associated with their most popular applications, such as email, peer-to-peer, e-business, search engines, streaming media, etc. This tutorial presents a comprehensive study of real Web workloads. It shows the main properties of these workloads and discusses the invariants across different types of workloads. It introduces methodologies and techniques used in workload characterization and modeling. Constructing a model involves tradeoffs between realism and complexity. The tutorial shows how characterization techniques have been used to capture the most relevant aspects of Web workloads while keeping the model as simple as possible. A major goal of this tutorial is to show how workload models can be used to design efficient Web systems and services. The attendees of the tutorial will be exposed to the most important techniques for characterizing and modeling Web workloads.

**Wednesday, May 9, 2007
Half Day Tutorial (Afternoon)**

**Semantic Digital Libraries
Coleman, 1:30pm to 5:00pm (CC2)**

Presenters

Sebastian Ryszard Kruk, National University of Ireland
Stefan Decker, National University of Ireland
Bernhard Haslhofer, Research Studios Austria
Predrag Knezevic, Fraunhofer IPSI Institute
Sandy Payette, Cornell University

Abstract

The aim of this tutorial is to educate attendees on the applications of Semantic Web and Social Networking (Web 2.0) technologies in digital library systems. These technologies include metadata management, semantic search and browsing, personalized and community-aware services, and semantically empowered federations of digital libraries. The semantic digital libraries can be used in enterprise scale systems such as knowledge management systems, medical records systems, legal research systems and others will be discussed at some depth. These applications can benefit in manners which directly impact the ROI for the effort of including semantic encoding and metadata into an enterprises digital library based systems and services. After this tutorial, the audience will be able to start using existing semantic digital libraries or apply Semantic Web technologies to digital library systems.

**Thursday, May 10, 2007
Half Day Tutorial (Afternoon)**

**Model Driven Semantic Web Engineering
Beatty, 1:30pm to 5:00pm (CC2)**

Presenters

Dragan Gasevic, Simon Fraser University
Gerd Wagner, Brandenburg University of Technology at Cottbus, Germany

Abstract

Model Driven Engineering (MDE) and the Semantic Web represent two key technologies with a far-reaching vision for the future of software engineering and Web engineering. The main promise of MDE is to raise the level of abstraction from technology-platform-specific concepts to the higher levels of platform-independent and computation-independent modeling. The Semantic Web vision starts from another perspective: sharing data, resources and knowledge between parties that belong to different organizations, different cultures, and/or different communities. Ontologies and rules play the main role in the Semantic Web for publishing community vocabularies and policies, for annotating resources and for turning Web applications into inference-enabled collaboration platforms.

The main goal of this tutorial is to give an introduction into state-of-the-art Web engineering methods based on the principles, models, and technologies of both MDE and the Semantic Web. The tutorial starts from the basics of the Semantic Web and MDE (e.g., ontology languages, modeling languages, model transformations), and then explores how they can be employed in various stages of Web engineering.

**Friday, May 11, 2007
Half Day Tutorial (Afternoon)**

**Semantic Web:
Technologies and Applications for the Real-World
Coleman, 1:30pm to 5:00pm (CC2)**

Presenters

Amit Sheth, Wright State University
Susie Stephens, Eli Lilly

Abstract

The Semantic Web has now reached a level of maturity that allows large enterprises to adopt the technology. The standards landscape is increasingly well developed, with RDF and OWL already being W3C standard recommendations, and GRDDL, SPARQL and SAWSDL looking likely to follow shortly. There is also an increasing array of robust software products that use Semantic Web technology, which greatly assists with any implementations.

This tutorial will focus on three areas. Firstly, it will provide a brief introduction to the core Semantic Web standards, including RDF, OWL, SPARQL and SAWSDL. It will then provide a comprehensive survey of the many Semantic Web tools that are currently available. The final section and the primary component of the tutorial will describe several real world implementations of applications enabled by the Semantic Web technologies.

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Workshops

Tuesday, May 8, 2007

Full Day Workshops

Adversarial Information Retrieval on the Web (AIRWeb 2007)
Shaughnessy, 8:30am to 5:00pm (CC2)

Organizers

Carlos Castillo, Yahoo! Research
Kumar Chellapilla, Microsoft Live Labs
Brian Davison, Lehigh University

Workshop Website

<http://airweb.cse.lehigh.edu/2007/>

Full Papers

A Taxonomy of JavaScript Redirection Spam

Kumar Chellapilla and Alexey Maykov

New Metrics for Reputation Management in P2P Networks

Debora Donato, Mario Paniccia, Maddalena Selis, Carlos Castillo, Giovanni Cortese, and Stefano Leonardi

Using Spam Farm to Boost PageRank

Ye Du, Yaoyun Shi, and Xin Zhao

Combating Spam in Tagging Systems

Georgia Koutrika, Frans Effendi, Zoltan Gyongyi, Paul Heymann, and Hector Garcia-Molina

Splog Detection Using Self-similarity Analysis on Blog

Temporal Dynamics

Yu-Ru Lin, Hari Sundaram, Yun Chi, Junichi Tatemura, and Belle Tseng

Measuring Similarity to Detect Qualified Links

Xiaoguang Qi, Lan Nie, and Brian Davison

Improving Web Spam Classification using Rank-time Features

Krysta Svore, Qiang Wu, Chris Burges, and Aaswath Raman

Extracting Link Spam using Biased Random Walks from Spam Seed Sets

Baoning Wu and Kumar Chellapilla

Computing Trusted Authority Scores in Peer-to-Peer Web

Search Networks

Josiane Xavier Parreira, Debora Donato, Carlos Castillo, and Gerhard Weikum

Transductive Link Spam Detection

Dengyong Zhou, Christopher Burges, and Tao Tao

Short Papers

Web Spam Detection via Commercial Intent Analysis

Andras Benczur, Istvan Biro, Karoly Csalogany, and Tamas Sarlos

Improving Web Spam Classifiers Using Link Structure

Qingqing Gan and Torsten Suel

A Large-Scale Study of Link Spam Detection by Graph Algorithms

Hiroo Saito, Masashi Toyoda, Masaru Kitsuregawa, and Kazuyuki Aihara

Health Care and Life Sciences Data Integration for the Semantic Web

Frontenac, 8:30am to 5:00pm (HM1)

Organizers

Kei Cheung, Yale University
Huajun Chen, Zhejiang University
Yimin Wang, University of Karlsruhe
Joanne Luciano, Harvard Medical School
Susie Stephens, Eli Lilly
Vipul Kashyap, Partners HealthCare System

Workshop Website

<http://neuroweb.med.yale.edu/hcls/Welcome.htm>

Papers

The State of the Nation in Data Integration

Carole Goble

Dynamic Integration of Medical Ontologies in Large Scale

Vit Novacek, Loredana Laera, and Siegfried Handschuh

An Experiment on Using Temporal Ontologies to Reason about

Localization and Transport of Fungal Proteins

Michel Nathan and Gregory Butler

A Genome – Phenome Integrated Approach for Mining

Disease-Causal Genes using Semantic Web

Ranga Chandra Gudivada, Xiaoyan Qu, Anil Jegga, Eric Neumann, and Bruce Aronow

Bio2RDF: Towards a Mashup to Build Bioinformatics

Knowledge System

Francois Belleau, Marc-Alexandre Nolin, Nicole Tourigny, Philippe Rigault, and Jean Morissette

An Overview of the SWAN 1.0 Discourse Ontology

Paolo Ciccarese, Elizabeth Wu, and Tim Clark

An Experiment in Integrating Large Biomedical Knowledge

Resources with RDF: Application to Associating Genotype and Phenotype Information

Satya Sahoo, Olivier Bodenreider, Kelly Zeng, and Amit Sheth

Ontology-based Data Quality Enhancement for Drug Databases

Olivier Cure and Jean-Paul Giroud

Towards a Semantic Knowledge Base for Yeast Biologists

Natalia Villanueva-Rosales, Kevin Osbahr, and Michel Dumontier

Epoch Clinical Trial Ontologies to Support Clinical Trials

Management

Ravi Shankar, Susana Martins, Martin O'Connor, David Parrish, and Amar Das

Adaptive Medical Workflow Using BPEL Process and

Ontological Knowledge Base

Amir Hedayati, Jiangbo Dang, Ken Hampel, and Candemir Toklu

I3: Identity, Identifiers, Identifications -- Entity-Centric Approaches to Information and Knowledge Management on the Web

McKenzie, 8:30am to 5:00pm (HM1)

Organizers

Paulo Bouquet, University of Trento, Italy
Heiko Stoermer, University of Trento, Italy
Giovanni Tummarello, Universita Politecnica delle Marche, Italy
Harry Halpin, University of Edinburgh

Workshop Website

<http://okkam.dit.unitn.it/i3/>

Papers

Profiling Topics on the Web

Aditya Sehgal and Padmini Srinivasan

Referent Tracking and its Applications

Werner Ceusters and Barry Smith

Towards Ontology-based Disambiguation of Geographical Identifiers

Raphael Volz, Joachim Kleb, and Wolfgang Mueller

Performing Object Consolidation on the Semantic Web Data Graph

Aidan Hogan, Andreas Harth, and Stefan Decker

A Grounded Ontology for Identity and Reference of Web Resources

Aldo Gangemi and Valentina Presutti

Identity: How to name it, How to find it

Christo Dichev, Darina Dicheva, and Jan Fischer

OKKAM: Enabling a Web of Entities

Paolo Bouquet, Heiko Stoermer, and Daniel Giacomuzzi

MobEA V - Mobile Web in the Developing World Palliser, 8:30am to 5:00pm (HM1)

Organizers

Daniel Appelquist, Vodafone

Rittwik Jana, AT&T Labs Research

Workshop Website

<http://www.research.att.com/~rjana/mobea2007.htm>

Papers

Using CAM-equipped Mobile Phones for Procurement and Quality Control at a Rural Coffee Cooperative

Yael Schwartzman and Tapan Parikh

Content Analysis Techniques to Ease Browsing with Handhelds

Jalal Mahmud, Yevgen Borodin, and I.V. Ramakrishnan

Mobile Web in the Developing World: Position Paper

Ken Banks

Web – “Greatest Equalizer” for the Developing World

Asoke Talukder

Library of Congress Outreach to the Developing World: The World Digital Library Initiative

Justin Thorp

A Collaborative and Feature-based Approach to Context-Sensitive Service Discovery

Julia Kuck and Frank Reichartz

Devices to Access Internet in Developing Countries

Guillermo Esteve and Angel Machin

SOVoIP: True Convergence of Data and Voice Network

Mohammed Jubaer Arif, Shanika Karunasekera, and Santosh Kulkarni

Query Log Analysis: Social and Technological Challenges Beatty, 8:30am to 5:00pm (CC2)

Organizers

Einat Amitay, IBM Research

G. Craig Murray, University of Maryland

Jaime Teevan, Microsoft Research

Workshop Website

<http://querylogs2007.webir.org/>

Papers

Functional Faceted Web Query Analysis

Bang Viet Nguyen and Min-Yen Kan

A Study of Mobile Search Queries in Japan

Ricardo Baeza-Yates, Georges Dupret, and Javier Velasco

User 4XXXXX9: Anonymizing Query Logs

Eytan Adar

Comparing Click Logs and Editorial Labels for Training Query Rewriting

Wei Vivian Zhang and Rosie Jones

Towards Privacy-Preserving Query Log Publishing

Li Xiong and Eugene Agichtein

Position Paper: Access to Query Logs – An Academic Researcher’s Point of View

Judit Bar-Ilan

Query Logs Alone are not Enough

Carrie Grimes, Diane Tang, and Daniel M. Russell

Position Paper: Preserving the Collective Expressions of the Human Consciousness

Bernard J. Jansen

Web Search Engine Evaluation using Clickthrough Data and a User Model

Georges Dupret, Vanessa Murdock, and Benjamin Piwowarski

Can We Find Common Rules of Browsing Behavior?

Ganesan Velayathan and Seiji Yamada

People’s Query Logs: Personal Information Management

Amanda Spink and Bernard Jansen

Social and Collaborative Construction of Structured Knowledge Alberta, 8:30am to 5:00pm (HM2)

Organizers

Harith Alani, University of Southampton

Natasha Noy, Stanford University

Gerd Stumme, University of Kassel

Peter Mika, Free University, Amsterdam

York Sure, University of Karlsruhe

Denny Vrandečić, University of Karlsruhe

Workshop Website

<http://km.aifb.uni-karlsruhe.de/ws/ckc2007/>

Papers

Ontology Maturing: A Collaborative Web 2.0 Approach to Ontology Engineering

Simone Braun, Andreas Schmidt, and Andreas Walter

C-ODO: An OWL Meta-model for Collaborative Ontology Design

Aldo Gangemi, Valentina Presutti, Carola Catenacci, Jos Lehmann, and Malvina Nissim

Promotion of Ontological Comprehension: Exposing Terms and Metadata with Web 2.0

Andrew Gibson, Katy Wolstencroft, and Robert Stevens

Adding Value to Biodiversity Images through Community Annotation

Greg Riccardi

Formalization, User Strategy, and Interaction Design: Users’ Behaviour with Discourse Tagging Semantics

Bertrand Sereno, Simon Buckingham Shum, and Enrico Motta

Improving Ontology Recommendation and Reuse in WebCORE by Collaborative Assessments

Ivan Cantador, Miriam Fernandez, and Pablo Castells

Fostering Knowledge Evolution through Community-based Participation

Domenico Gendarmi, Fabio Abbattista, and Filippo Lanubile

Computer-Supported Collaborative Knowledge Modeling in Ecology

Deana Pennington, Joshua Madin, Ferdinando Villa, and Ioannis Athanasiadis

Accepted Demos

OntoWiki: A Tool for Social, Semantic Collaboration

Sören Auer, Sebastian Dietzold, Jens Lehmann, and Thomas Riechert

Collaborative Protege

Tania Tudorache and Natasha Noy

Distributed Construction of Ontologies Using Hozo

Kouji Kozaki, Eiichi Sunagawa, Yoshinobu Kitamura, and Riichiro Mizoguchi

Organizing Publications and Bookmarks in BibSonomy

Robert Jaschke, Miranda Grahl, Andreas Hotho, Beate Krause, Christoph Schmitz, and Gerd Stumme

SOBOLEO -- Social Bookmarking and Lightweight Engineering of Ontologies

Valentin Zacharias and Simone Braun

Collaboratively Building Structured Knowledge with DBin: from del.icio.us tags to an "RDFS Folksonomy"

Giovanni Tummarello and Christian Morbidoni

Improving Ontology Recommendation and Reuse in WebCORE by Collaborative Assessments

Ivan Cantador, Miriam Fernandez, and Pablo Castells

Adding Value to Biodiversity Images Through Community Annotation in the Morphbank System

Greg Riccardi

BOWiki - A Collaborative Annotation and Ontology Curation Framework

Michael Backhaus, Janet Kelso, Joshua Bacher, Heinrich Herre, Robert Hoehndorf, Frank Loebe, and Johann Visagie

Sponsored Search Auctions

Champlain, 8:30am to 5:00pm (HM1)

Organizers

Gagan Aggarwal, Google
Kartik Hosanagar, University of Pennsylvania
David Pennock, Yahoo!
Michael Schwarz, Yahoo!
Rakesh Vohra, Northwestern University

Workshop Website

<http://opim-sun.wharton.upenn.edu/ssa3/index.html>

Papers

Dynamic Efficient Auctions

Dirk Bergemann and Juuso Valimaki

A Simulation Framework for Evaluating Designs for Sponsored Search Markets

Soam Acharya, Prabhakar Krishnamurthy, Ketan Deshpande, Tak Yan, and Chi-Chao Chang

Budget Constrained Bidding in Keyword Auctions and Online Knapsack Problems

Deeparnab Chakrabarty, Yunhong Zhou, and Rajan Lukose

Sponsored Search with Contexts

Eyal Even-Dar, Michael Kearns, and Jennifer Wortman

The Effect on Click-through of Combining Sponsored and Non-sponsored Search Engine Results in a Single Listing

Bernard J. Jansen and Amanda Spink

Incentive-Compatible Multi-Armed Bandit Mechanism

Rica Gonen and Elan Pavlov

Stochastic Models for Budget Optimization in Search-Based Advertising

S. Muthukrishnan, Martin Pal, and Zoya Svitkina

Is Efficiency Expensive?

Tim Roughgarden and Mukund Sundararajan

Empirical Price Modeling for Sponsored Search

Kuzman Ganchev, Ryan Gabbard, Alex Kulesza, Qian Liu, Jinsong Tan, and Michael Kearns

Auctions with Revenue Guarantees for Sponsored Search

Zoe Abrams and Arpita Ghosh

Dynamics of Strategic Manipulation in Ad-Word Auction

Tian-Ming Bu, Xiaotie Deng, and Qi Qi

Search Advertising Based Promotion Strategies for Online Retailers

Amit Mehra

Cost of Conciseness in Sponsored Search Auctions

Zoe Abrams, Arpita Ghosh, and Erik Vee

Keyword Generation for Search Engine Advertising using Semantic Similarity between Terms

Vibhanshu Abhishek

**Tagging and Metadata for Social Information Organization
Coleman, 8:30am to 5:00pm (CC2)**

Organizers

Scott Golder, HP Labs
Frank Smadja, RawSugar

Workshop Website

<http://www2007.redlog.net/>

Papers

Learning User Profiles from Tagging Data and Leveraging them for Personal(ized) Information Access

Elke Michlmayr and Steve Cayzer

Network Properties of Folksonomies

Christoph Schmitz, Miranda Grahl, Andreas Hotho, Gerd Stumme, Ciro Cattuto, Andrea Baldassarri, Vittorio Loreto, and Vito D. P. Servedio

Emerging Motivations for Tagging: Expression, Performance, and Activism

Alla Zollers

Applying Collaborative Tagging to E-Learning

Scott Bateman, Christopher Brooks, Gord McCalla, and Peter Brusilovsky

Tag-Cloud Drawing: Algorithms for Cloud Visualization

Owen Kaser and Daniel Lemire

SemKey: A Semantic Collaborative Tagging System

Andrea Marchetti, Maurizio Tesconi, Francesco Ronzano, Marco Rosella, and Salvatore Minutoli

Towards Federated Web2.0 Sites: The TAGMAS Approach

Jon Iturrioz, Oscar Diaz, and Cristobal Arellano



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- Web hosting and website development agreements
- Content development and licensing

For more information contact: Jeffrey A. Berkowitz at jeffrey.berkowitz@finnegan.com.



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On-Site Logistics

Registration

The WWW2007 registration desk is in the Van Horne Foyer in the Conference Centre (CC2). The registration desk will be open as follows:

- Monday, May 7: 1:00pm-6:00pm
- Tuesday, May 8: 7:00am-5:00pm
- Wednesday, May 9: 7:00am-5:00pm
- Thursday, May 10: 7:30am-5:00pm
- Friday, May 11: 7:30am-5:00pm
- Saturday, May 12: 8:00am-noon

Wireless Internet

WWW2007 has contracted with MyCanopy to provide Wireless Internet service throughout all meeting areas during the conference. Technical support for the network is provided by MyCanopy, with the cooperation of Motorola, Enmax, Axia, the Alberta Supernet, the University of Calgary, and the Fairmont Banff Springs Hotel.

The SSID for the wireless network should be WWW2007. This network is intended for the use of conference delegates only.

Internet Cafe

For those without a wireless laptop, a small Internet Café is set up on the lower level of the Conference Centre, by the Theatre lobby.

Printing and Shipping

WWW2007 is pleased to partner with The UPS Store for all your on-site printing, copying, and shipping needs. Look for their stand in the Van Horne Foyer.

Exhibition

The WWW2007 sponsor Exhibition Hall is housed in Van Horne C. The exhibition will be open as follows:

- Wednesday, May 9: 10:00am-8:00pm
- Thursday, May 10: 10:00am-5:00pm
- Friday, May 11: 10:00am-5:00pm

Exhibitors should plan to set up on Tuesday, and remove their display Friday after 6:00pm.

Exhibition Booths

- AOL
- Microsoft
- SAP
- Ask.com
- Google
- University of Calgary
- Vodafone
- eBay Research Labs
- iCORE
- Sirma Group
- Taylor and Francis
- University of Southampton (ECS)
- WSRI
- W3C
- WWW2008 / IW3C2

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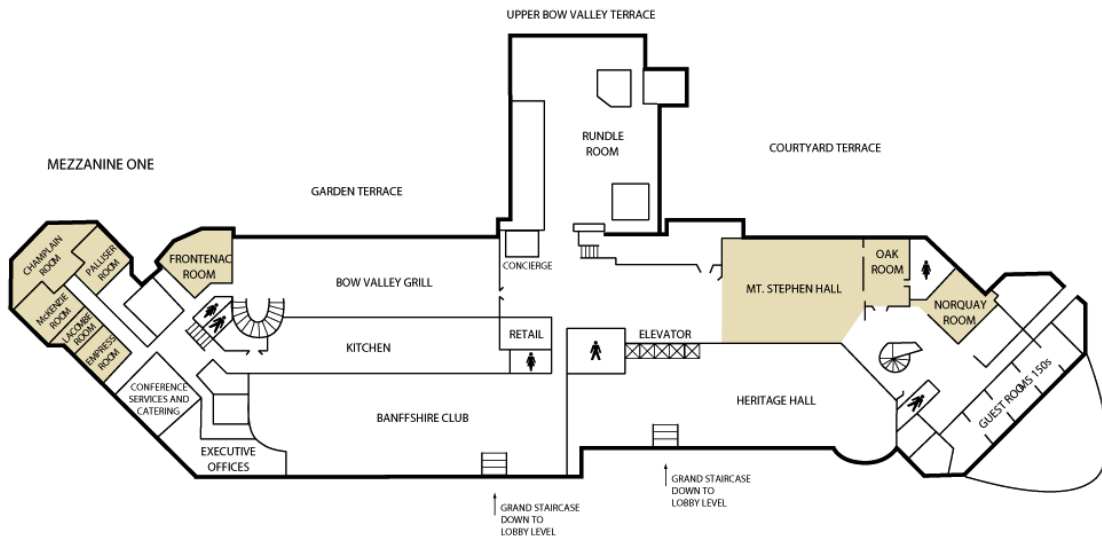
Tuesday, May 8, 2007:

Room	Shaughnessy	Beatty	Coleman	Theatre	New Brunswick	Alberta	Cascade
Location	CC2	CC2	CC2	CC1	HM2	HM2	HM2
8:30am to 10:00am	AIRWeb 2007: Adversarial Information Retrieval on the Web (Full-day workshop)	Query Log Analysis: Social and Technological Challenges (Full-day workshop)	Tagging and Metadata for Social Information Organization (Full-day workshop)	Foundations and Challenges of Web Advertising (Half-day tutorial)	Web Accessibility (W4A) Conference (Day 2 of 2)	Social and Collaborative Construction of Structured Knowledge (Full-day Workshop)	W3C AC Meeting (Day 2 of 2)
break							
10:30am to noon	AIRWeb 2007: Adversarial Information Retrieval on the Web (cont'd)	Query Log Analysis: Social and Technological Challenges (cont'd)	Tagging and Metadata for Social Information Organization (cont'd)	Foundations and Challenges of Web Advertising (cont'd)	Web Accessibility (W4A) Conference (cont'd)	Social and Collaborative Construction of Structured Knowledge (cont'd)	W3C AC Meeting (cont'd)
lunch break							
1:30pm to 3:00pm	AIRWeb 2007: Adversarial Information Retrieval on the Web (cont'd)	Query Log Analysis: Social and Technological Challenges (cont'd)	Tagging and Metadata for Social Information Organization (cont'd)	Learning to Rank in Vector Spaces and Social Networks (Half-day Tutorial)	Web Accessibility (W4A) Conference (cont'd)	Social and Collaborative Construction of Structured Knowledge (cont'd)	W3C AC Meeting (cont'd)
break							
3:30pm to 5:00pm	AIRWeb 2007: Adversarial Information Retrieval on the Web (cont'd)	Query Log Analysis: Social and Technological Challenges (cont'd)	Tagging and Metadata for Social Information Organization (cont'd)	Learning to Rank in Vector Spaces and Social Networks (cont'd)	Web Accessibility (W4A) Conference (cont'd)	Social and Collaborative Construction of Structured Knowledge (cont'd)	W3C AC Meeting (cont'd)
Evening	Web History Opening Reception (5:00pm to 8:00pm, starting in Riverview Lounge)						

Building the Web

Oak	Norquay	Frontenac	Champlain	McKenzie	Palliser	Empress	Lacombe
HM1	HM1	HM1	HM1	HM1	HM1	HM1	HM1
User-Centric Identity for Web Applications (Half-day Tutorial)	Next Generation Web Services in Practice (Half-day Tutorial)	Health Care and Life Sciences Data Integration for the Semantic Web (Full-day Workshop)	Sponsored Search Auctions (Full-day Workshop)	I3: Identity, Identifiers, Identifications (Full-day Workshop)	MobEA V: Mobile Web in the Developing World (Full-day Workshop)	Robust Management of Web and Grid Ontologies and Metadata (Full-day Tutorial)	Cost-Effective Engineering of Web Application Product Lines (Half-day Tutorial)
User-Centric Identity for Web Applications (cont'd)	Next Generation Web Services in Practice (cont'd)	Health Care and Life Sciences Data Integration for the Semantic Web (cont'd)	Sponsored Search Auctions (cont'd)	I3: Identity, Identifiers, Identifications	MobEA V: Mobile Web in the Developing World (cont'd)	Robust Management of Web and Grid Ontologies and Metadata (cont'd)	Cost-Effective Engineering of Web Application Product Lines (cont'd)
An Integrated Approach to Evaluating Web Accessibility: Automated, Manual and User-based Testing (Half-day Tutorial)	Deploying Web-scale Mash-ups by Linking Microformats and the Semantic Web (Half-day Tutorial)	Health Care and Life Sciences Data Integration for the Semantic Web (cont'd)	Sponsored Search Auctions (cont'd)	I3: Identity, Identifiers, Identifications	MobEA V: Mobile Web in the Developing World (cont'd)	Robust Management of Web and Grid Ontologies and Metadata (cont'd)	Web Workloads: Characterization, Modeling and Application (Half-day Tutorial)
An Integrated Approach to Evaluating Web Accessibility: Automated, Manual and User-based Testing (cont'd)	Deploying Web-scale Mash-ups by Linking Microformats and the Semantic Web (cont'd)	Health Care and Life Sciences Data Integration for the Semantic Web (cont'd)	Sponsored Search Auctions (cont'd)	I3: Identity, Identifiers, Identifications (cont'd)	MobEA V: Mobile Web in the Developing World (cont'd)	Robust Management of Web and Grid Ontologies and Metadata (cont'd)	Web Workloads: Characterization, Modeling and Application (cont'd)

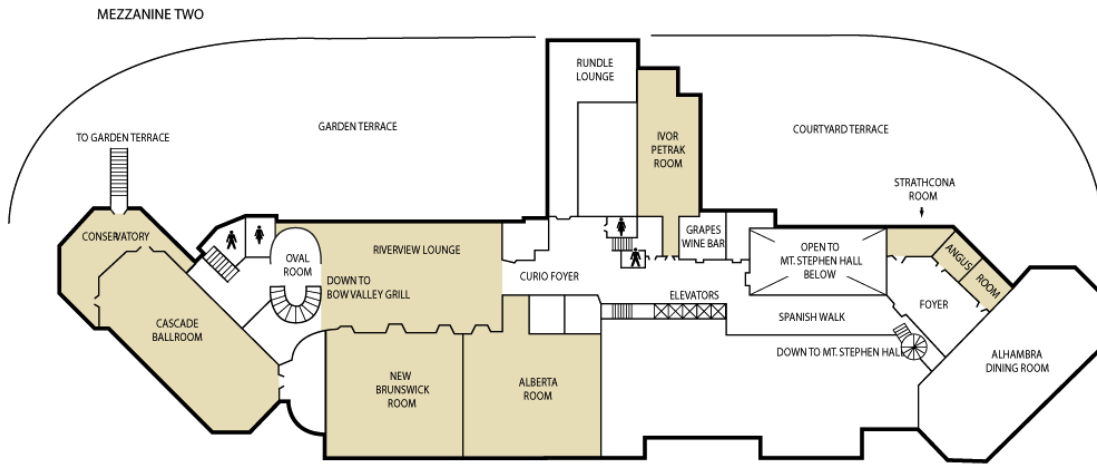
Hotel Mezzanine First Floor (HM1)



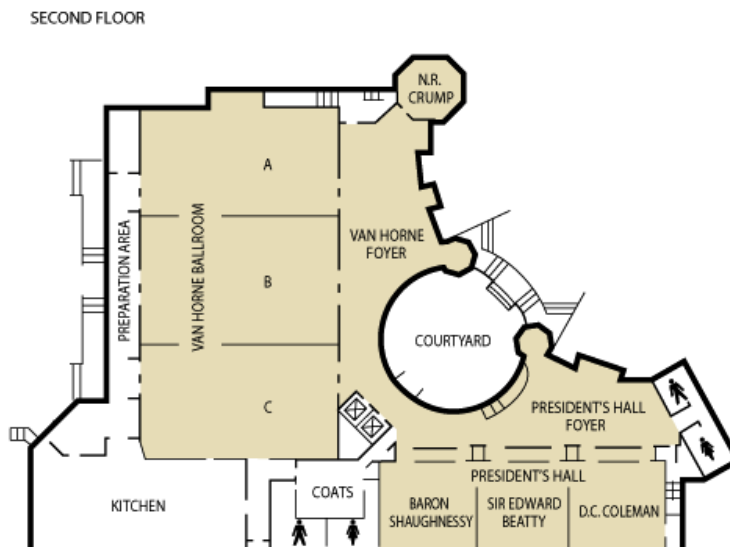
Conference Centre First Floor (CC1)



Hotel Mezzanine Second Floor (HM2)



Conference Centre Second Floor (CC2)



Wednesday, May 9, 2007: The Global Web

Room	VanHorne	Shaughnessy	Beatty	Coleman	Theatre	Petrak	New Brunswick	Alberta	Cascade
Location	CC2	CC2	CC2	CC2	CC1	HM2	HM2	HM2	HM2
8:30am to 10:00am	WWW2007 Opening Ceremonies and Plenary Speaker: Tim Berners-Lee (MIT/W3C) The Two Magics of Web Science (Van Horne Ballroom)								
break									
10:30am to noon	Sponsor Exhibition Hall (Van Horne C)	Web History Track Pioneers of the Web and E-Commerce	Technology for Developing Regions 1 of 2 (Communication in Developing Regions) 3 papers	Web Science (panel)		Web History Exhibit	XML and Web Data 1 of 2 (Querying and Transforming XML) 3 papers	Search 1 of 7 (Search Potpourri) 3 papers	W3C Track Making Mobile Web Browsing Better
lunch break									
1:30pm to 3:00pm	Sponsor Exhibition Hall (cont'd)	Web History Track (cont'd)	Web Delivery Models for Developing Regions (panel)	Semantic Digital Libraries (Half-day tutorial)	Industry Talks Search and Data	Web History Exhibit (cont'd)	Browsers and User Interfaces 1 of 2 (Personalization) 3 papers	Search 2 of 7 (Crawlers) 3 papers	W3C Track Rich Web Applications
break									
3:30pm to 5:00pm	Sponsor Exhibition Hall (cont'd)	Web History Track (cont'd)	Technology for Developing Regions 2 of 2 (Networking Issues in the Web) 3 papers	Semantic Digital Libraries (cont'd)		Web History Exhibit (cont'd)	Browsers and User Interfaces 2 of 2 (Smarter Browsing) 3 papers	Search 3 of 7 (Web Graphs) 3 papers	W3C Track The Future of the Web Page
Evening	WWW2007 Welcome Reception (Van Horne Ballroom and Foyer, 6:00pm to 8:00pm)								

Thursday, May 10, 2007: Mining the Web

Room	VanHorne	Shaughnessy	Beatty	Coleman	Theatre	Petrak	New Brunswick	Alberta	Cascade
Location	CC2	CC2	CC2	CC2	CC1	HM2	HM2	HM2	HM2
8:30am to 10:00am	WWW2007 Announcements and Plenary Speaker: Prabhakar Raghavan (Yahoo! Research) Web N.O: What sciences will it take? (Van Horne Ballroom)								
break									
10:30am to noon	Sponsor Exhibition Hall (Van Horne C)	Performance & Scalability 1 of 2 (Scalable Systems for Dynamic Content) 3 papers	Pervasive Web and Mobility 1 of 1 (Pervasive Web and Mobility) 3 papers	Semantic Web with Data (panel)	Industry Talk Web Search	Web History Exhibit	XML and Web Data 2 of 2 (Parsing, Normalizing, and Storing XML) 3 papers	Data Mining 1 of 5 (Identifying Structure in Web Pages) 3 papers	W3C Track Advances in Semantic Web
lunch break									
1:30pm to 3:00pm	Sponsor Exhibition Hall (cont'd)	Performance and Scalability (panel)	Model Driven Semantic Web Engineering (Half-day Tutorial)	Developers Track Programming the Web	Industry Panel Mobile Web and Ajax	Web History Exhibit (cont'd)	Industrial Practice and Experience 1 of 1 (IPE) 3 papers	Data Mining 2 of 5 (Mining Textual Data) 3 papers	W3C Track Security and Usability on the Web
break									
3:30pm to 5:00pm	Sponsor Exhibition Hall (cont'd)	Performance & Scalability 2 of 2 (Performance Engineering of Web Applications) 3 papers	Model Driven Semantic Web Engineering (cont'd)	Developers Track Web Tools	Web Search Privacy Issues (panel)	Web History Exhibit (cont'd)	Multimedia Metadata Standards in Semantic Web (panel)	Search 4 of 7 (Search Quality and Precision) 3 papers	W3C Track Web of Services for Enterprise Computing
Evening	WWW2007 Banquet (6:00pm to 9:00pm) (offsite at Brewster's MountView Barbecue; bus transportation provided, starting at 5:30 pm)								

Friday, May 11, 2007: Weaving the Web

Room	VanHorne	Shaughnessy	Beatty	Coleman	Theatre	Petrak	New Brunswick	Alberta	Cascade
Location	CC2	CC2	CC2	CC2	CC1	HM2	HM2	HM2	HM2
8:30am to 10:00am	WWW2007 Announcements and Plenary Speaker: Bill Buxton (Microsoft Research/University of Toronto) Design for the World Narrow Web (Van Horne Ballroom)								
break									
10:30am to noon	Sponsor Exhibition Hall (Van Horne C)	Web Engineering 1 of 2 (Web Modeling) 3 papers	Searching Personal Content (panel)	Developers Track Linked Data	Industry Talks Web and Patents	Web History Exhibit	Semantic Web 1 of 5 (Applications) 3 papers	Data Mining 3 of 5 (Similarity Search) 3 papers	W3C Track A Multimodal Web to Expand Universal Access
lunch break									
1:30pm to 3:00pm	Sponsor Exhibition Hall (cont'd)	Web Engineering 2 of 2 (End-User Perspective and Measurement in Web Engineering) 3 papers	Web Services 1 of 2 (Orchestration and Choreography) 3 papers	Semantic Web: Technologies and Applications for the Real-World (Half-day tutorial)	Developers Track Emerging Web Platforms	Web History Exhibit (cont'd)	Semantic Web 2 of 5 (Similarity and Extraction) 3 papers	Search 5 of 7 (Advertisements and Click Estimates) 3 papers	W3C Track Architectural Integration
break									
3:30pm to 5:00pm	Sponsor Exhibition Hall (cont'd)	Security, Privacy, Reliability, and Ethics 1 of 3 (Defending Against Emerging Threats) 4 papers	Web Services 2 of 2 (SLAs and QoS) 4 papers	Semantic Web: Technologies and Applications for the Real-World (cont'd)	Developers Track Next Generation Web Servers	Web History Exhibit (cont'd)	Semantic Web 3 of 5 (Query Languages and DBs) 4 papers	Search 6 of 7 (Knowledge Discovery) 3 papers	W3C Track Query, Interchange, and Access with XML!
5:00pm to 5:30pm									

Saturday, May 12, 2007: The World Wide Web and You

Room	Shaughnessy	Beatty	Coleman	Theatre	Petrak	New Brunswick	Alberta
Location	CC2	CC2	CC2	CC1	HM2	HM2	HM2
8:30am to 10:00am	WWW2007 Announcements and Plenary Speaker: Dick Hardt (SXIP Identity) An Identity Story (Van Horne Ballroom)						
break							
10:30am to noon	Semantic Web 4 of 5 (Ontologies) 3 papers	E* Applications 1 of 2 (E-Communities) 3 papers	Developers Track Web Data 1	Industry Talks Web Enterprises	Web History Exhibit	Security, Privacy, Reliability, and Ethics 2 of 3 (Passwords and Phishing) 3 papers	Search 7 of 7 (Personalization) 3 papers
lunch break							
1:30pm to 3:00pm	Semantic Web 5 of 5 (Semantic Web and Web 2.0) 3 papers	E* Applications 2 of 2 (E-Commerce and E-Content) 3 papers	Developers Track Web Data 2	Industry Panel Social Computing	Web History Exhibit (cont'd)	Birds of a Feather (BOF) Session 1 of 2 Topic TBD	Data Mining 4 of 5 (Predictive Modeling of Web Users) 3 papers
break							
3:30pm to 5:00pm	Security, Privacy, Reliability, and Ethics 3 of 3 (Access Control and Trust on the Web) 3 papers	Lightning Talks Work in Progress Session (sign up during conference)	Developers Track Social Networks and Lightning Talks	Industry Panel Web-based Businesses	Web History Exhibit (cont'd)	Birds of a Feather (BOF) Session 2 of 2 Topic TBD	Data Mining 5 of 5 (Mining in Social Networks) 3 papers
Evening	WWW2007 Closing Ceremony 5:00pm to 5:30pm						

Refereed Papers

(organized by Track and Session)

Track: Browsers and User Interfaces

SESSION: Personalization

(Wed May 9, 1:30pm-3:00pm, New Brunswick, HM2)

Homepage Live: Automatic Block Tracing for Web Personalization

Jie Han, Shanghai Jiaotong University
Dingyi Han, Shanghai Jiaotong University
Chenxi Lin, Microsoft Research Asia
Hua-Jun Zeng, Microsoft Research Asia
Zheng Chen, Microsoft Research Asia
Yong Yu, Shanghai Jiaotong University

Open User Profiles for Adaptive News Systems: Help or Harm?

Jaewook Ahn, University of Pittsburgh
Peter Brusilovsky, University of Pittsburgh
Jonathan Grady, University of Pittsburgh
Daqing He, University of Pittsburgh
Sue Yeon Syn, University of Pittsburgh

Investigating Behavioral Variability in Web Search

Ryen White, Microsoft Research
Steven M. Drucker, Microsoft LiveLabs

SESSION: Smarter Browsing

(Wed May 9, 3:30pm-5:00pm, New Brunswick, HM2)

CSurf: A Context-Driven Non-Visual Web-Browser*

Jalal Mahmud, Stony Brook University
Yevgen Borodin, Stony Brook University
I.V. Ramakrishnan, Stony Brook University

GeoTracker: Geospatial and Temporal RSS Navigation

Yih-Farn Chen, AT&T Labs - Research
Giuseppe Di Fabbri, AT&T Labs - Research
David Gibbon, AT&T Labs - Research
Rittwik Jana, AT&T Labs Research
Serban Jora, AT&T Labs - Research
Bernard Renger, AT&T Labs - Research
Bin Wei, AT&T Labs - Research

Learning Information Intent via Observation

Anthony Tomasic, Carnegie Mellon University
Isaac Simmons, Carnegie Mellon University
John Zimmerman, Carnegie Mellon University

Track: Data Mining

SESSION: Identifying Structure in Web Pages

(Thu May 10, 10:30am-noon, Alberta, HM2)

Page-level Template Detection via Isotonic Smoothing

Deepayan Chakrabarti, Yahoo! Research
Ravi Kumar, Yahoo! Research
Kunal Punera, Univ of Texas at Austin

Towards Domain-Independent Information Extraction from Web Tables

Wolfgang Gatterbauer, Vienna University of Technology
Paul Bohunsky, Vienna University of Technology
Marcus Herzog, Vienna University of Technology
Bernhard Kroepl, Vienna University of Technology
Bernhard Pollak, Vienna University of Technology

Web Object Retrieval

Zaiqing Nie, Microsoft Research Asia
Yunxiao Ma, Microsoft Research Asia
Shuming Shi, Microsoft Research Asia
Ji-Rong Wen, Microsoft Research Asia
Wei-Ying Ma, Microsoft Research Asia

SESSION: Mining Textual Data

(Thu May 10, 1:30pm-3:00pm, Alberta, HM2)

Summarizing Email Conversations with Clue Words

Giuseppe Carenini, University of British Columbia
Raymond Ng, University of British Columbia
Xiaodong Zhou, University of British Columbia

Organizing and Searching the World Wide Web of Facts - Step Two: Harnessing the Wisdom of the Crowds

Marius Pasca, Google Inc.

Do Not Crawl in the DUST: Different URLs with Similar Text

Ziv Bar-Yossef, Technion - Israel Institute of Technology and Google Haifa
Idit Keidar, Technion - Israel Institute of Technology
Uri Schonfeld, University of California at Los Angeles

SESSION: Similarity Search

(Fri May 11, 10:30am-noon, Alberta, HM2)

A New Suffix Tree Similarity Measure for Document Clustering

Hung Chim, City University of Hong Kong
Xiaotie Deng, City University of Hong Kong

Scaling Up All-Pairs Similarity Search

Roberto Bayardo, Google
Yiming Ma, University of California at Irvine
Ramakrishnan Srikant, Google

Detecting Near-Duplicates for Web Crawling

Gurmeet Manku, Google Inc.
Arvind Jain, Google Inc.
Anish Das Sarma, Stanford University

SESSION: Predictive Modeling of Web Users

(Sat May 12, 1:30pm-3:00pm, Alberta, HM2)

Demographic Prediction based on User's Browsing Behavior

Jian Hu, Microsoft Research Asia
Hua-Jun Zeng, Microsoft Research Asia
Hua Li, Microsoft Research Asia
Cheng Niu, Microsoft Research Asia
Zheng Chen, Microsoft Research Asia

Why We Search? Visualizing and Predicting User Behavior

Eytan Adar, University of Washington
Daniel Weld, University of Washington
Brian Bershad, University of Washington
Steven Gribble, University of Washington

* paper award nominee

Topic Sentiment Mixture: Modeling Facets and Opinions in Weblogs

Qiaozhu Mei, University of Illinois at Urbana-Champaign
Xu Ling, University of Illinois at Urbana-Champaign
Matthew Wondra, University of Illinois at Urbana-Champaign
Hang Su, Yahoo! Inc.
ChengXiang Zhai, UIUC

SESSION: Mining in Social Networks
(Sat May 12, 3:30pm-5:00pm, Alberta, HM2)

Wherefore Art Thou R3579X? Anonymized Social Networks, Hidden Patterns, and Structural Steganography*

Lars Backstrom, Cornell University
Cynthia Dwork, Microsoft Research
Jon Kleinberg, Cornell University

Information Flow Modeling based on Diffusion Rate for Prediction and Ranking

Xiaodan Song, NEC Laboratories America
Yun Chi, NEC Laboratories America
Koji Hino, NEC Laboratories America
Belle Tseng, NEC Laboratories America

NetProbe: A Fast and Scalable System for Fraud Detection in Online Auction Networks

Shashank Pandit, Carnegie Mellon University
Duen Horng Chau, Carnegie Mellon University
Samuel Wang, Carnegie Mellon University
Christos Faloutsos, Carnegie Mellon University

Track: E* Applications
SESSION: E-Communities
(Sat May 12, 10:30am-noon, Beatty, CC2)

The Complex Dynamics of Collaborative Tagging

Harry Halpin, University of Edinburgh
Valentin Robu, National Center for Mathematics and Computer Science, Amsterdam
Hana Shepherd, Princeton University

Expertise Networks in Online Communities: Structure and Algorithms

Jun Zhang, University of Michigan
Mark Ackerman, University of Michigan
Lada Adamic, University of Michigan

Internet-Scale Collection of Human-Reviewed Data

Qi Su, Yahoo! Inc
Dmitry Pavlov, Yahoo! Inc
Jyh-Herng Chow, Yahoo! Inc
Wendell Baker, Yahoo! Inc

SESSION: E-Commerce and E-Content
(Sat May 12, 1:30pm-3:00pm, Beatty, CC2)

DETECTIVES: DETECTing Coalition hiT Inflation attacks in adVertising nEtworks Streams

Ahmed Metwally, University of California, at Santa Barbara
Divyakant Agrawal, University of California, at Santa Barbara
Amr El Abbadi, University of California, at Santa Barbara

Extraction and Search of Chemical Formulae in Text Documents on the Web*

Bingjun Sun, Pennsylvania State University
Qingzhao Tan, Pennsylvania State University
Prasenjit Mitra, Pennsylvania State University
C. Lee Giles, Pennsylvania State University

A Content-Driven Reputation System for the Wikipedia

B. Thomas Adler, University of California, at Santa Cruz
Luca de Alfaro, University of California, at Santa Cruz

Track: Industrial Practice and Experience
SESSION: IPE
(Thu May 10, 1:30pm-3:00pm, New Brunswick, HM2)

Google News Personalization: Scalable Online Collaborative Filtering*

Abhinandan Das, Google Inc.
Mayur Datar, Google Inc.
Ashutosh Garg, Google Inc
Shyam Rajaram, University of Illinois at Urbana Champaign

Exploring in the Weblog Space by Detecting Informative and Affective Articles

Xiaochuan Ni, Shanghai Jiao-Tong University
Gui-Rong Xue, Shanghai Jiao-Tong University
Xiao Ling, Shanghai Jiao-Tong University
Yong Yu, Shanghai Jiao-Tong University
Qiang Yang, Hong Kong University of Science and Technology

Spam Double-Funnel: Connecting Web Spammers with Advertisers

Yi-Min Wang, Microsoft Research
Ming Ma, Microsoft Research
Yuan Niu, University of California, Davis
Hao Chen, University of California, Davis

Track: Performance and Scalability
SESSION: Scalable Systems for Dynamic Content
(Thu May 10, 10:30am-noon, Shaughnessy, CC2)

GlobeTP: Template-Based Database Replication for Scalable Web Applications

Tobias Groothuyse, Vrije Universiteit, Amsterdam
Swaminathan Sivasubramanian, Vrije Universiteit, Amsterdam
Guillaume Pierre, Vrije Universiteit, Amsterdam

Consistency-preserving Caching of Dynamic Database Content

Niraj Tolia, Carnegie Mellon University
M. Satyanarayanan, Carnegie Mellon University

Optimized Query Planning of Continuous Aggregation Queries in Dynamic Data Dissemination Networks

Rajeev Gupta, IBM India Research Lab
Krithi Ramamritham, IIT Bombay

SESSION: Performance Engineering of Web Applications
(Thu May 10, 3:30pm-5:00pm, Shaughnessy, CC2)

A Scalable Application Placement Controller for Enterprise Data Centers

Chunqiang Tang, IBM T.J. Watson Research Center
Malgorzata Steinder, IBM Research
Michael Spreitzer, IBM Research
Giovanni Pacifici, IBM Research

* paper award nominees

A Unified Platform for Data Driven Web Applications with Automatic Client-Server Partitioning

Fan Yang, Cornell University
Nitin Gupta, Cornell University
Nicholas Gerner, Cornell University
Xin Qi, Cornell University
Alan Demers, Cornell University
Johannes Gehrke, Cornell University
Jayavel Shanmugasundaram, Yahoo!

MyXDNS: A Request Routing DNS Server With Decoupled Server Selection

Hussein Alzoubi, Case Western Reserve University
Michael Rabinovich, Case Western Reserve University
Oliver Spatscheck, AT&T Research Labs

Track: Pervasive Web and Mobility

SESSION: Pervasive Web and Mobility
(Thu May 10, 10:30am-noon, Beatty, CC2)

Robust Web Page Segmentation for Mobile Terminal Using Content-Distances and Page Layout Information

Gen Hattori, KDDI R&D Laboratories
Keiichiro Hoashi, KDDI R&D Laboratories
Kazunori Matsumoto, KDDI R&D Laboratories
Fumiaki Sugaya, KDDI R&D Laboratories

PRIVE: Anonymous Location-Based Queries in Distributed Mobile Systems

Gabriel Ghinita, National University of Singapore
Panos Kalnis, National University of Singapore
Spiros Skiadopoulos, University of Peloponnese

A Mobile Application Framework for the Geospatial Web

Rainer Simon, Telecommunications Research Center Vienna
Peter Froehlich, Telecommunications Research Center Vienna

Track: Search

SESSION: Search Potpourri
(Wed May 9, 10:30am-noon, Alberta, HM2)

Navigation-Aided Retrieval

Shashank Pandit, Carnegie Mellon University
Christopher Olston, Yahoo! Research

Efficient Search Engine Measurements

Ziv Bar-Yossef, Technion - Israel Institute of Technology and Google Haifa
Maxim Gurevich, Technion - Israel Institute of Technology

Efficient Search in Large Textual Collections with Redundancy*

Jiangong Zhang, Polytechnic University
Torsten Suel, Polytechnic University

SESSION: Crawlers

(Wed May 9, 1:30pm-3:00pm, Alberta, HM2)

The Discoverability of the Web

Anirban Dasgupta, Yahoo! Research
Arpita Ghosh, Yahoo! Research
Ravi Kumar, Yahoo! Research
Christopher Olston, Yahoo! Research
Sandeep Pandey, Yahoo! Research
Andrew Tomkins, Yahoo! Research

Combining Classifiers to Identify Online Databases

Luciano Barbosa, University of Utah
Juliana Freire, University of Utah

An Adaptive Crawler for Locating Hidden-Web Entry Points

Luciano Barbosa, University of Utah
Juliana Freire, University of Utah

SESSION: Web Graphs

(Wed May 9, 3:30pm-5:00pm, Alberta, HM2)

Random Web Crawls

Toufik Bennouas, Criteo R&D
Fabien de Montgolfier, Universite Paris 7

Extraction and Classification of Dense Communities in the Web

Yon Ourisboure, Institute for Informatics and Telematics of C.N.R.
Filippo Geraci, Institute for Informatics and Telematics of C.N.R.
Marco Pellegrini, Institute for Informatics and Telematics of C.N.R.

Web Projections: Learning from Contextual Subgraphs of the Web

Jure Leskovec, Carnegie Mellon University
Susan Dumais, Microsoft Research
Eric Horvitz, Microsoft Research

SESSION: Search Quality and Precision

(Thu May 10, 3:30pm-5:00pm, Alberta, HM2)

Supervised Rank Aggregation

Yuting Liu, Microsoft Research Asia and Beijing Jiatong University
Tie-Yan Liu, Microsoft Research Asia
Tao Qin, Microsoft Research Asia and Tsinghua University
Zhiming Ma, Chinese Academy of Science
Hang Li, Microsoft Research Asia

Navigating the Intranet with High Precision

Huaiyu Zhu, IBM Research
Alexander Loeser, SAP Research
Sriram Raghavan, IBM Research Almaden
Shivakumar Vaithyanathan, IBM Research

Optimizing Web Search Using Social Annotations

Shenghua Bao, Shanghai Jiao Tong University
Xiaoyuan Wu, Shanghai Jiao Tong University
Ben Fei, IBM China Research Lab
Gui-Rong Xue, Shanghai Jiao Tong University
Zhong Su, IBM China Research Lab
Yong Yu, Shanghai Jiao Tong University

SESSION: Advertisements and Click Estimates

(Fri May 11, 1:30pm-3:00pm, Alberta, HM2)

Robust Methodologies for Modeling Web Click Distributions

Kamal Ali, Yahoo!
Mark Scarr, Yahoo!

Predicting Clicks: Estimating the Click-Through Rate for New Ads

Matthew Richardson, Microsoft Research
Ewa Dominowska, Microsoft
Robert Ragno, Microsoft Research

* paper award nominee

Dynamics of Bid Optimization in Online Advertisement Auctions

Christian Borgs, Microsoft Research
Jennifer Chayes, Microsoft Research
Omid Etesami, U.C. Berkeley
Nicole Immorlica, Microsoft Research
Kamal Jain, Microsoft Research
Mohammad Mahdian, Yahoo! Research

SESSION: Knowledge Discovery
(Fri May 11, 3:30pm-5:00pm, Alberta, HM2)

Compare&Contrast: Using the Web to Discover Comparable Cases for News Stories

Jiahui Liu, Northwestern University
Earl Wagner, Northwestern University
Larry Birnbaum, Northwestern University

Answering Bounded Continuous Search Queries in the World Wide Web

Dirk Kukulenz, Institute of Information Systems
Alexandros Ntoulas, Microsoft Search Labs

Answering Relationship Queries on the Web

Gang Luo, IBM T.J. Watson Research Center
Chunqiang Tang, IBM T.J. Watson Research Center
Ying-li Tian, IBM T.J. Watson Research Center

SESSION: Personalization
(Sat May 12, 10:30am-noon, Alberta, HM2)

Dynamic Personalized Pagerank in Entity-Relation Graphs

Soumen Chakrabarti, IIT Bombay

A Large-scale Evaluation and Analysis of Personalized Search Strategies

Zhicheng Dou, Nankai University
Ruihua Song, Shanghai Jiao Tong University
Ji-Rong Wen, Microsoft Research Asia

Privacy-Enhancing Personalized Web Search

Yabo Xu, Simon Fraser University
Benyu Zhang, Microsoft Research Asia
Zheng Chen, Microsoft Research Asia
Ke Wang, Simon Fraser University

Track: Security, Privacy, Reliability, and Ethics

SESSION: Defending Against Emerging Threats
(Fri May 11, 3:30pm-5:30pm, Shaughnessy, CC2)

Defeating Script Injection Attacks with Browser-Enforced Embedded Policies

Trevor Jim, AT&T Labs Research
Nikhil Swamy, University of Maryland
Michael Hicks, University of Maryland

Subspace: Secure Cross-Domain Communication for Web Mashups

Collin Jackson, Stanford University
Helen Wang, Microsoft Research

Exposing Private Information by Timing Web Applications

Andrew Bortz, Stanford University
Dan Boneh, Stanford University

On Anonymizing Query Logs via Token-based Hashing

Ravi Kumar, Yahoo! Research
Jasmine Novak, Yahoo! Research
Bo Pang, Yahoo! Research
Andrew Tomkins, Yahoo! Research

SESSION: Passwords and Phishing
(Saturday May 12, 10:30am-noon, New Brunswick, HM2)

CANTINA: A Content-Based Approach to Detecting Phishing Web Sites

Yue Zhang, University of Pittsburgh
Jason Hong, Carnegie Mellon University
Lorrie Cranor, Carnegie Mellon University

Learning to Detect Phishing Emails

Ian Fette, Carnegie Mellon University
Norman Sadeh, Carnegie Mellon University
Anthony Tomasic, Carnegie Mellon University

A Large-Scale Study of Web Password Habits

Dinei Florencio, Microsoft Research
Cormac Herley, Microsoft Research

SESSION: Access Control and Trust on the Web
(Saturday May 12, 3:30pm-5:00pm, Shaughnessy, CC2)

A Fault Model and Mutation Testing of Access Control Policies

Evan Martin, North Carolina State University
Tao Xie, North Carolina State University

Analyzing Web Access Control Policies

Vladimir Kolovski, University of Maryland
James Hendler, University of Maryland
Bijan Parsia, University of Manchester

Compiling Cryptographic Protocols for Deployment on the Web

Jay McCarthy, Brown University
Joshua D. Guttman, MITRE Corporation
John D. Ramsdell, MITRE Corporation
Shriram Krishnamurthi, Brown University

Track: Semantic Web

SESSION: Applications
(Fri May 11, 10:30am-noon, New Brunswick, HM2)

Toward Expressive Syndication on the Web*

Christian Halaschek-Wiener, The University of Maryland
James Hendler, University of Maryland

Exhibit: Light-weight Structured Data Publishing

David Huynh, MIT
David Karger, MIT
Rob Miller, MIT

SPARQ2L: Towards Support For Subgraph Extraction Queries in RDF Databases

Kemafor Anyanwu, University of Georgia
Angela Maduko, University of Georgia
Amit Sheth, Wright State University

SESSION: Similarity and Extraction
(Fri May 11, 1:30pm-3:00pm, New Brunswick, HM2)

Measuring Semantic Similarity between Words Using Web Search Engines

Danushka Bollegala, University of Tokyo
Yutaka Matsuo, AIST
Mitsuru Ishizuka, University of Tokyo

* paper award nominee

Using Google Distance to Weight Approximate Ontology Matches

Risto Gligorov, Philips Research
Zharko Aleksovski, Vrije Universiteit Amsterdam & Philips Research
Warner ten Kate, Philips Research
Frank van Harmelen, Vrije Universiteit Amsterdam

Hierarchical, Perceptron-like Learning for Ontology-Based Information Extraction

Yaoyong Li, University of Sheffield
Kalina Bontcheva, University of Sheffield

**SESSION: Query Languages and DBs
(Fri May 11, 3:30pm-5:30pm, New Brunswick, HM2)**

From SPARQL to Rules (and back)

Axel Polleres, National University of Ireland

Bridging the Gap Between OWL and Relational Databases

Boris Motik, University of Manchester
Ian Horrocks, University of Manchester
Ulrike Sattler, University of Manchester

ActiveRDF: Object-Oriented Semantic Web Programming

Eyal Oren, National University of Ireland
Renaud Delbru, National University of Ireland
Armin Haller, National University of Ireland
Sebastian Gerke, National University of Ireland

Explorations in the Use of Semantic Web Technologies for Product Information Management

Jean-Sebastien Brunner, IBM China Research Laboratory
Li Ma, IBM China Research Laboratory
Chen Wang, IBM China Research Laboratory
Lei Zhang, IBM China Research Laboratory
Daniel C. Wolfson, IBM Software Group
Yue Pan, IBM China Research Laboratory
Kavitha Srivas, IBM T.J. Watson Research Center

**SESSION: Ontologies
(Sat May 12, 10:30am-noon, Shaughnessy, CC2)**

Yago: A Core of Semantic Knowledge - Unifying WordNet and Wikipedia

Fabian M. Suchanek, Max-Planck-Institute
Gjergji Kasneci, Max-Planck-Institute
Gerhard Weikum, Max-Planck-Institute

Ontology Summarization Based on RDF Sentence Graph

Xiang Zhang, Southeast University
Gong Cheng, Southeast University
Yuzhong Qu, Southeast University

Just the Right Amount: Extracting Modules from Ontologies

Bernardo Cuenca Grau, University of Manchester
Ian Horrocks, University of Manchester
Yevgeny Kazakov, University of Manchester
Ulrike Sattler, University of Manchester

**SESSION: Semantic Web and Web 2.0
(Sat May 12, 1:30pm-3:00pm, Shaughnessy, CC2)**

The Two Cultures: Mashing Up Web 2.0 and the Semantic Web (position paper)

Anupriya Ankolekar, Universitat Karlsruhe
Markus Kroetzsch, Universitat Karlsruhe
Thanh Tran, Universitat Karlsruhe
Denny Vrandeic, Universitat Karlsruhe

Analysis of Topological Characteristics of Huge Online Social Networking Services

Yong-Yeol Ahn, KAIST
Seungyeop Han, KAIST
Haewoon Kwak, KAIST
Sue Moon, KAIST
Hawoong Jeong, KAIST

P-TAG: Large Scale Automatic Generation of Personalized Annotation TAGs for the Web

Paul - Alexandru Chirita, L3S / University of Hannover
Stefania Costache, L3S / University of Hannover
Siegfried Handschuh, Digital Enterprise Research Institute
Wolfgang Nejdl, L3S / University of Hannover

Track: Technology for Developing Regions

**SESSION: Communication in Developing Regions
(Wed May 9, 10:30am-noon, Beatty, CC2)**

Connecting the Bottom of the Pyramid: An Exploratory Case Study of India's Rural Communication Environment

Sarita Seshagiri, Motorola India Research Labs
Aman Sagar, Motorola India Research Labs
Dhaval Joshi, Motorola India Research Labs

Communication as Information-Seeking: The Case for Mobile Social Software for Developing Regions

Beth Kolko, University of Washington
Emma Rose, University of Washington
Erica Johnson, University of Washington

Optimal Audio-Visual Representations for Illiterate Users of Computers

Indrani Medhi, Microsoft Research India
Archana Prasad, Microsoft Research India
Kentaro Toyama, Microsoft Research India

**SESSION: Networking Issues in the Web
(Wed May 9, 3:30pm-5:00pm, Beatty, CC2)**

Identifying and Discriminating Between Web and Peer-to-Peer Traffic in the Network Core

Jeffrey Erman, University of Calgary
Anirban Mahanti, University of Calgary
Martin Arlitt, HP Labs/University of Calgary
Carey Williamson, University of Calgary

Long Distance Wireless Mesh Network Planning: Problem Formulation and Solution

Sayandeep Sen, IIT Kanpur
Bhaskaran Raman, IIT Kanpur

Is High-Quality VoD Feasible using P2P Swarming?

Siddhartha Annapureddy, New York University
Saikat Guha, Cornell University
Dinan Gunawardena, Microsoft Research
Christos Gkantsidis, Microsoft Research
Pablo Rodriguez, Telefonica Research

Track: Web Engineering

**SESSION: Web Modeling
(Fri May 11, 10:30am-noon, Shaughnessy, CC2)**

Turning Portlets into Services: The Consumer Profile

Oscar Diaz, University of the Basque Country
Salvador Trujillo, University of the Basque Country
Sandy Perez, University of the Basque Country

A Framework for Rapid Integration of Presentation Components

Jin Yu, University of New South Wales
Boualem Benatallah, University of New South Wales
Regis Saint-Paul, University of New South Wales
Fabio Casati, University of Trento
Florian Daniel, Politecnico di Milano
Maristella Matera, Politecnico di Milano

Integrating Value-based Requirement Engineering Models to WebML using VIP Business Modeling Framework

Farooque Azam, Beijing University of Aeronautics and Astronautics
Zhang Li, Beijing University of Aeronautics and Astronautics
Rashid Ahmad, Beijing University of Aeronautics and Astronautics

SESSION: End-Users Perspective and Measurement (Fri May 11, 1:30pm-3:00pm, Shaughnessy, CC2)

Towards Effective Browsing of Large Scale Social Annotations*

Rui Li, Shanghai JiaoTong University
Shenghua Bao, Shanghai Jiao Tong University
Ben Fei, IBM China Research Lab
Zhong Su, IBM China Research Lab
Yong Yu, Shanghai Jiao Tong University

Supporting End-Users in the Creation of Dependable Web Clips

Sandeep Lingam, University of Nebraska
Sebastian Elbaum, University on Nebraska

Effort Estimation: How Valuable is it for a Web company to Use a Cross-company Data Set, Compared to Using Its Own Single-company Data Set?

Emilia Mendes, University of Auckland
Sergio Di Martino, University of Salerno
Filomena Ferrucci, University of Salerno
Carmine Gravino, University of Salerno

Track: Web Services

SESSION: Orchestration & Choreography (Fri May 11, 1:30pm-3:00pm, Beatty, CC2)

Towards the Theoretical Foundation of Choreography

Zongyan Qiu, Peking University
Xiangpeng Zhao, Peking University
Chao Cai, Peking University
Hongli Yang, Peking University

Introduction and Evaluation of Martlet, a Scientific Workflow Language for Abstracted Parallelisation*

Daniel James Goodman, Oxford University

Semi-Automated Adaptation of Service Interactions

Hamid R. Motahari Nezhad, University of New South Wales
Boualem Benatallah, University of New South Wales
Axel Marten, IBM TJ Watson Research Centre
Francisco Curbera, IBM TJ Watson Research Centre
Fabio Casati, University of Trento

SESSION: SLAs and QoS (Fri May 11, 3:30pm-5:30pm, Beatty, CC2)

Reliable QoS Monitoring Based on Client Feedback

Radu Jurca, Ecole Polytechnique Federale de Lausanne EPFL
Walter Binder, University of Lugano
Boi Faltings, Ecole Polytechnique Federale de Lausanne EPFL

Preference-based Selection of Highly Configurable Web Services

Steffen Lamparter, Universitaet Karlsruhe
Anupriya Ankolekar, Universitaet Karlsruhe
Stephan Grimm, FZI Karlsruhe
Rudi Studer, Universitaet Karlsruhe

Speeding up Adaptation of Web Service Compositions Using Expiration Times

John Harney, University of Georgia
Prashant Doshi, University of Georgia

DIANE - An Integrated Approach to Automated Service Discovery, Matchmaking and Composition

Ulrich Kuester, Friedrich Schiller University Jena
Birgitta Koenig-Ries, Friedrich-Schiller-University Jena
Mirco Stern, Universitaet Karlsruhe
Michael Klein, Universitaet Karlsruhe

Track: XML and Web Data

SESSION: Querying and Transforming XML (Wed May 9, 10:30am-noon, New Brunswick, HM2)

Multway SLCA-based Keyword Search in XML Data

Chong Sun, National University of Singapore
Chee-Yong Chan, National University of Singapore
Amit Goenka, National University of Singapore

Visibly Pushdown Automata for Streaming XML

Viraj Kumar, UIUC
Parthasarathy Madhusudan, UIUC
Mahesh Viswanathan, UIUC

Mapping-Driven XML Transformation

Haifeng Jiang, IBM Almaden Research Center
Howard Ho, IBM Almaden Research Center
Lucian Popa, IBM Almaden Research Center
Wook-Shin Han, National University

SESSION: Parsing, Normalizing, and Storing XML (Thu May 10, 10:30am-noon, New Brunswick, HM2)

Querying and Maintaining a Compact XML Storage

Raymond Wong, National ICT Australia

XML Design for Relational Storage

Solmaz Kolahi, University of Toronto
Leonid Libkin, University of Edinburgh

A High-Performance Interpretive Approach to Schema-Directed Parsing

Morris Matsa, IBM Corporation
Eric Perkins, IBM Corporation
Abraham Heifets, IBM Corporation
Margaret Gaitatzes Kostoulas, IBM Corporation
Daniel Silva, IBM Corporation
Noah Mendelsohn, IBM Corporation
Michelle Leger, IBM Corporation

* paper award nominees

W3C Track

Cascade Ballroom (HM2)

Wednesday, May 9, 2007

Making Mobile Browsing Better, 10:30am-noon

Session Chair: Michael Smith, W3C

Mobile Web Initiative Success Stories

Michael Smith, W3C

Towards a mobileOK Web

Dan Appelquist, Vodafone

Describing, Exchanging, and Aggregating Test Results

Shadi Abou-Zahra, W3C

Device Description: Important New Work in Progress, Why We Need your Participation

Rhys Lewis, Volantis

Mobile Web to Bridge the Digital Divide

Charles McCathie Nevile, Opera Software

Mobile Web Initiative: The Road Ahead

Panel (with speakers and James Pearce, mTLD, Art Barstow, Nokia)

Rich Web Applications, 1:30pm-3:00pm

Session Chair: Chris Lilley, W3C

Mobile Web Applications

Kevin Kelly, IBM

Widgets and Web Applications

Art Barstow, Nokia

WICD and Ubiquitous Web Applications

Dave Raggett, W3C Fellow, Volantis Systems

Accessible Rich Internet Applications (WAI-ARIA)

Michael Cooper, W3C

The Future of the Web Page, 3:30pm-5:00pm

Session Chair: Olivier Thereaux, W3C

HTML Reloaded

Chris Lilley, W3C

Next Steps for HTML Forms

Dave Raggett, W3C Fellow, Volantis Systems

CSS, 10 Years After

Bert Bos, W3C

Content Accessibility with WCAG 2.0

Michael Cooper, W3C

Enriching the Web Application Model?

Arun Ranganathan, AOL

Panel (with speakers and Steph Troeth, WASP/Cloudraker)

Thursday, May 10, 2007

Advances in Semantic Web, 10:30am-noon

Session Chair: Ivan Herman, W3C

Rule Interchange Format Work Report

Sandro Hawke, W3C

Bootstrapping the Semantic Web with GRDDL, Microformats, and RDFa

Harry Halpin, U. of Edinburgh

Fabien Gandon, INRIA

Harnessing the Semantic Web to Answer Scientific Questions; A HCLS IG Demo

Susie Stephens, Eli Lilly and Company

Alan Ruttenberg, Science Commons

Security and Usability on the Web, 1:30pm-3:00pm

Session Chair: Thomas Roessler, W3C

Moving User-Centered Security from Grand Challenge to Standards Work

Mary Ellen Zurko, IBM

Usability Design and Testing for Security

Rachna Dhamija, CommerceNet

Design by Crowds: User Experience Design and Testing with Open Source Projects

Mike Beltzner, Mozilla

Web of Services for Enterprise Computing, 3:30pm-5:00pm

Session Chair: Philippe Le Hegaret, W3C

Report from the Web of Services for Enterprise Computing Workshop

Philippe Le Hegaret, W3C

Why Should We Care About the Web Services Description Language 2.0?

Philippe Le Hegaret, W3C

Web Services Policy Language

Charlton Barreto, Adobe

Semantic Annotations for WSDL

Jacek Kopecksy, DERI Innsbruck

Friday, May 11, 2007

A Multimodal Web to Expand Universal Access, 10:30am-noon

Session Chair: Kazuyuki Ashimura, W3C

How to Author Multimodal Web Applications

Kazuyuki Ashimura, W3C

State Chart XML: the Core Component for Multimodal Web Applications

Rafah Hosn, IBM

Voice on the Web: Input/Output Modality Challenges

Jerry Carter, Nuance Communications

Architectural Integration, 1:30pm-3:00pm

Session Chair: Steven Pemberton, W3C

The W3C Rich Web Application Backplane

John Boyer, IBM

XML Application Components and Controllers

Rafah Hosn, IBM

xH: A Standards-based Web Application Programming Language

Mark Birbeck, x-port.net

Query, Interchange and Access with XML!, 3:30pm-5:00pm

Session Chair: Liam Quin, W3C

Schema Support inXQuery to Help Developers

Mary Holstege, MarkLogic

XSL-FO, the XSL Formatting Language

Sharon Adler, IBM

Liam Quin, W3C

Efficient XML Interchange

Mike Cokus, MITRE

DevTrack

Thursday, May 10, 2007

Programming the Web

Coleman, 1:30pm-3:00pm (CC2)

On Demand and Web-as-platform Programming Languages

Peter Coffee, salesforce.com

Mashing-up the Mobile

Paul Downey, BT

Web Tools

Coleman, 3:30pm-5:00pm (CC2)

Describing Web Applications - WADLing with Java

Marc Hadley, Sun Microsystems

W3C's Unicorn: all-in-one Web Quality Checking

Oliver Thereaux, W3C

The httpperf Web Workload Generator

Theodore Bullock, University of Calgary

Friday, May 11, 2007

Linked Data

Coleman, 10:30am-noon (CC2)

A Semantic Web Browser

Tabulator: Tim Berners-Lee, W3C

Querying Wikipedia Like a Database

Christian Bizer Freie, University Berlin

How to Combine the Best of Web2.0 and a Semantic Web:

Examples from Revyu.com

Tom Heath, KMi, The Open University

Emerging Web Platforms

Theatre, 1:30pm-3:00pm (CC1)

Google Data API (GData) Protocol

Ryan Boyd, Google

Pipes: A Tool for Remixing the Web

Pasha Sadri, Yahoo!

Next-Generation Web Servers

Theatre, 3:30pm-5:00pm (CC1)

Semantic Web Server

Fabien Gandon, INRIA

Atom Publishing with Apache Abdera

Elias Torres, IBM

Semantic MediaWiki

Denny Vrandecic, University of Karlsruhe

Saturday, May 12, 2007

Web Data 1

Coleman, 10:30am-noon (CC2)

The Micro-Web: putting the 'Web' back into 'Web 2.0'!

Duncan Cragg, ThoughtWorks

Parsing Microformats any way you want

Ryan King, Technorati

Web Data 2

Coleman, 1:30pm-3:00pm (CC2)

Designing XForms

John Boyer, IBM

Integrating Spreadsheets and the Web with Queso, Salsa, and the Boca RDF server

Lee Feigenbaum, IBM

Moving Stuff - Linking Desktops with semiBlog, the Semantic Clipboard and RDFa

Knud Muller, DERI/NUIG

Social Networks & Lightning Talks

Coleman, 3:30pm-5:00pm (CC2)

Building Social Networks for the Next Generation

Greg Cypes, AOL

Web Services Authentication for Mashups

Dan Theurer, Yahoo!

Refactoring the Ht://Dig Search Engine

Neal Richter, RightNow Technologies

Sequencing Web Services with SPARQL Annotations

Eric Prud'hommeaux, W3C

Acknowledgement

The Developers Track is sponsored by:



In addition to being a Platinum Sponsor, AOL agreed to sponsor DevTrack. Part of their funding is committed to travel support for independent developers who would otherwise be unable to attend WWW2007. Thanks to AOL for this support, and to Danny Ayers and Mark Nottingham for coordinating its allocation.

Industry Speakers

The following slate of high-profile industry speakers was made possible in part via the WWW2007 sponsorship program.

Sessions take place in the **Theatre (CC1)**.

Wednesday, May 9, 2007

Talks: Search and Data

1:30pm-3:00pm

Hybrid Search: Combining Structured and Unstructured Data into a Search Engine

Tomasz Imielinski, Ask.com

Humane Data Mining

Rakesh Agrawal, Microsoft Research

Thursday, May 10, 2007

Talk: Web Search

10:30am-11:15am

The Changing Face of Web Search

Bradley Horowitz, Yahoo! Inc.

Panel: Mobile Web and Ajax

1:30pm-3:00pm

Reinventing the Mobile Browsing Experience Through Ajax

Moderator:

Daniel Appelquist, Vodafone

Panelists:

Mark Birbeck, x-port.net

Martin Frid-Nielsen, SoonR

Rhys Lewis, Volantis

Arun Ranganathan, AOL

Friday, May 11, 2007

Talk: Web and Patents

10:30am-11:15am

Patent Reform: How you can fight back!

Jeffrey Berkowitz, Finnegan Henderson

Saturday, May 12, 2007

Talks: Web Enterprises

10:30am-noon

The Web as a Platform

Mike Jones, Userplane/AOL

7 Divides: How the Web Changed and is Changing Enterprise Software

Vishal Sikka, SAP

Panel: Social Computing

1:30pm-3:00pm

Social Computing: Search, Community, and Commerce

Moderator:

Mike Beltzner, Mozilla Foundation

Panelists:

Dick Hardt, Sxip Identity

Carol Jones, IBM

Neel Sundaresan, eBay Research Labs

TBD, Google

Panel: Web-based Businesses

3:30pm-5:00pm

New Web-based Business Models: Money or Meaning?

Moderator:

Ivan Sierralta, Calgary Technologies Inc.

Panelists:

Patrick Lor, iStockPhoto

Michael Sikorsky, Cambrian House

TBD



Web History Events and Exhibit

WWW2007 is delighted to host the second-ever Web History Events, Track, and Exhibit, and the first since 1997. These are co-sponsored and organized by the Web History Center (<http://webhistory.org>) and WWW2007.

A Web History Exhibit is on display in the Ivor Petrak Room (HM2) from Wednesday to Saturday (10:00am to 5:00pm each day). The Web History events at WWW2007 are below; please see <http://www2007.org/webhistory.php> for full details.

Tuesday, May 8, 2007

Web History Opening Reception

Riverview Lounge, 5:00pm-6:00pm (HM2)
Open to all Tuesday WWW2007 attendees, and those who purchase tickets separately.
Sponsored by the Web History Center and WWW2007.

Web History Opening Session

Location TBD, 6:00pm-8:00pm

Introductory Remarks

Bebo White, SLAC, IW3C2, and Web History Center
Marc Weber, Web History Center
Bill Pickett, Web History Center

Saving our Collective Memory

John Toole, Computer History Museum

The Birth of E-Commerce

Marty Tenenbaum, CommerceNet
Allan Schiffman, CommerceNet

Origins of the International Web Conference Series

Wendy Hall, University of Southampton, and WSRI

Wednesday, May 9, 2007

Web History Breakfast with Sir Tim Berners-Lee

Alhambra Dining Room, 7:30am-8:30am
100 guests, by invitation only.
Sponsored by the Web History Center and Calgary Technologies Inc.

WWW2007 Opening Ceremonies and Plenary Session

Van Horne Ballroom, 8:30am-10:00am

The Two Magics of Web Science

Sir Tim Berners-Lee, MIT/W3C

Web History Track

Shaughnessy (CC2), 10:30am-noon

Dress Rehearsal: Mass-Market E-Commerce in the 1980s

Hermann Maurer, University of Graz

The Difficult Birth of Commerce on the Web in the early 1990s

Marty Tenenbaum, CommerceNet
Allan Schiffman, CommerceNet

1:30pm-3:00pm

Tutorial: Saving our Collective Memory

John Toole, Computer History Museum
Bill Pickett, Web History Center
Marc Weber, Web History Center

The Late 90s Commerce Explosion; Search's Quest to Become an Industry

Gary Chevsky, Symantec

3:30pm-5:00pm

Web Commerce Grows Up

Zaheda Bhorat, Google
Rohit Khare, 4K Associates

The 14-year History of the IW3C2 and the WWW Conference Series

Wendy Hall, University of Southampton, and WSRI
Bebo White, SLAC, IW3C2, and Web History Center



Panels

Wednesday, May 9, 2007

Web Delivery in Developing Regions

Beatty, 1:30pm-3:00pm (CC2)

Moderator:

Amit A. Nanavati, IBM Research, India

Panelists:

Saman Amarasinghe, MIT, USA
 Ken Banks, kiwanja.net, UK
 Krithi Ramamritham, IIT Bombay, India
 Umar Saif, MIT, USA and LUMS, Pakistan
 Kentaro Toyama, Microsoft Research, India

Abstract

This panel aims to find the right delivery model for the Internet services that can be applicable to people in developing regions. The panel will bring academicians and researchers from the industry working on projects in developing countries to brainstorm on the different requirements and the usability aspects of the population that has several economic, social and IT challenges. Based on such requirements, the panel will bring fresh viewpoints for the most effective means of delivering services over the web to such a population.

Thursday, May 10, 2007

Building a Semantic Web in Which Our Data Can Participate

Coleman, 10:30am-noon (CC2)

Moderator:

Paul Miller, Talis

Panelists:

Matt Biddulph, freelance
 Steve Coast, OpenStreetMap
 Ian Davis, Talis
 Peter Murray-Rust, University of Cambridge

Abstract

This panel session will introduce participants to the increasingly important concept of open data, illustrating a broader set of concerns with real-world examples from broadcasting, scholarly publishing, map making and the library sector. Panelists will use these examples to highlight current restrictions on the effective use and reuse of rich data in powering the Semantic Web, and will offer suggestions as to ways in which attitudes and practice can and must change if we are to realise the potential of the data already held in databases around the world.

Performance and Scalability

Shaughnessy, 1:30pm-3:00pm (CC2)

Moderator:

Arun Iyengar, IBM Research, USA

Panelists:

Michele Colajanni, University of Modena, Italy
 Paul Dantzig, IBM, USA
 Swee Lim, Yahoo!, USA
 Misha Rabinovich, Case Western Reserve University, USA
 Prashant Shenoy, University of Massachusetts at Amherst, USA

Abstract

Performance, scalability, and availability continue to be critically important for the Web. As the Web has evolved, some issues, such as how to serve static data efficiently as well as many issues in caching, have been solved to a great extent. However other issues, such as how to serve dynamic data efficiently when complicated back-end processing is involved, continue to be of considerable importance. Companies with major presences on the Web devote a considerable amount of hardware to serving dynamic data. The savings which can be achieved by providing more efficient solutions are significant.

The Role of Multimedia Metadata Standards in a (Semantic) Web 3.0

New Brunswick, 3:30pm-5:00pm (HM2)

Moderators:

Raphael Troncy, CWI Amsterdam, The Netherlands
 Susanne Boll, University of Oldenburg, Germany

Panelists:

Sean Bechhofer, University of Manchester (UK)
 Lynda Hardman, CWI Amsterdam / Technical University of Eindhoven (The Netherlands)
 Mor Naaman, Yahoo! Research Berkeley (USA)
 John Smith, IBM (USA)

Abstract

Are multimedia metadata really needed on the Semantic Web? Are "real" multimedia standards, such as MPEG-7, of any value at all to the Web community? Do we really need to invoke the complexity of formal knowledge representation languages and ontologies? The Web already supports the storage and retrieval of media such as text, image, video and audio. In contrast to text, other media types require some sort of metadata in order to make them indexable and searchable. Surrounding text on the web page and user assigned tags are current methods which give access to millions of images and videos to millions of users. The Web 2.0 paradigm has become successful partly because it asks almost nothing from its end users. So, is there even a problem to be solved?

Web Search Privacy Issues

Theatre, 3:30pm-5:00pm (CC1)

Moderator:

Greg Conti, United States Military Academy, USA

Panelists:

Judit Bar-Ilan, Bar-Ilan University
 Tom Cross, IBM Internet Security Systems
 Bernard J. Jansen, Pennsylvania State University
 Martin Kratz, Bennett Jones LLP
 Wendy Seltzer, Brooklyn Law School

Abstract

Best practices for user privacy and data retention are a controversial issue in the WWW community. As highlighted by the accidental disclosure of search terms by AOL last summer, web users have shown a marked propensity to disclose personal information while using the powerful free tools provided by web companies. Some believe retention of data (for example search queries) is an essential business requirement and critical to admirable goals such as perfect search. After all, the services are free and the user could always choose not to use them. Others believe that data collection and retention are threats to privacy and, despite even the best intentions of web companies, the power these stockpiles provide will eventually be abused. The other major players in the equation are law enforcement and governmental agencies who have supported positions both for and against data retention. The purpose of the panel is to address these issues head on and jointly seek solutions that will allow web

companies to flourish, while at the same time protecting the privacy rights of individuals and organizations. This panel consists of experts from diverse positions on these topics, includes representatives from industry, academia and government and promises a lively, compelling and relevant discussion.

Friday, May 11, 2007

Searching Personal Content

Beatty, 10:30am-noon (CC2)

Moderator:

Yoelle Maarek, Google Haifa Research Lab, Israel

Panelists:

Susan Dumais, Microsoft Research

David Glazer, Google Inc.

Andrew Tomkins, Yahoo! Research

Chengxiang Zhai, University of Illinois at Urbana Champaign

Abstract

It has often been argued that it is much easier to find information on the Web rather than on one's own desktop, email accounts, or even Blog postings. One of the earliest pieces of work in this direction can be traced back to Dumais et al. in their now famous "Stuff I've Seen" paper at SIGIR'2003. Since then, desktop search, as well as built-in search support, in operating systems like in MacOS and Vista, have made (or remade) their apparition. While one could have thought that these solutions would solve, once and for all, the issue of searching personal content, it seems that the issue has shifted with the increasing use of Web services to store and maintain personal content on various hosts. Indeed, users are storing more and more of their favorite content, on remote servers not only for the purpose of sharing but also in order to take advantage of free storage and ease of maintenance. People commonly have several Web mail providers, a Blog hosting service, maybe a Web storage service, etc. As personal content becomes distributed and shared with many, it has become harder to search one's own stuff.

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Posters

President's Hall Foyer (CC2)

Wednesday, May 9, 2007

Systems

A No-Frills Architecture for Lightweight Answer Retrieval

Marius Pasca, Google Inc.

Web4CE: Accessing Web-based Applications on Consumer Devices

Walter Dees, Philips Research Labs
Paul Shrubsole, Philips Research Labs

Developing Regions

Collaborative ICT for Indian Business Clusters

Soumya Roy, Motorola India Research Labs
Shantanu Biswas, Motorola India Research Labs

Delay Tolerant Applications for Low Bandwidth and Intermittently Connected Users: the aAQUA Experience

Saurabh Sahni, IIT Bombay
Krithi Ramamritham, IIT Bombay

User Interfaces and Accessibility

A Browser for a Public-Domain SpeechWeb

Richard Frost, University of Windsor
Xiaoli Ma, University of Windsor
Yue Shi, University of Windsor

A Novel Clustering-based RSS Aggregator

Xin Li, Peking University
Jun Yan, Microsoft Research Asia
Zhihong Deng, Microsoft Research Asia
Lei Ji, Microsoft Research Asia
Weiguo Fan, Virginia Polytechnic Institute and State University
Benyu Zhang, Microsoft Research Asia
Zheng Chen, Microsoft Research Asia

Adaptive Faceted Browser for Navigation in Open Information Spaces

Michal Tvarozek, Slovak University of Technology
Maria Bielikova, Slovak University of Technology

An Assessment of Tag Presentation Techniques

Martin Halvey, UCD Dublin
Mark Keane, UCD Dublin

An Information State-Based Dialogue Manager for Making Voice Web Smarter

Marta Gatius, Technical University of Catalonia
Meritxell Gonzalez, Technical University of Catalonia
Elisabet Comelles, Technical University of Catalonia

Behavior Based Web Page Evaluation

Ganesan Velayathan, National Institute of Informatics
Seiji Yamada, National Institute of Informatics

Generating Efficient Labels to Facilitate Web Accessibility

Leo Spalteholz, University of Victoria
Kin Fun Li, University of Victoria
Nigel Livingston, University of Victoria

Generation, Documentation and Presentation of Mathematical Equations and Symbolic Scientific Expressions Using Pure HTML and CSS

Kehinde Alabi, SUNY at Stony Brook

GeoTV: Navigating Geocoded RSS to Create an IPTV Experience

Yih-Farn Chen, Rittwik Jana, Giuseppe Di Fabrizio,
David Gibbon, Serban Jora, Bernard Renger,
Bin Wei, AT&T Labs - Research

Summarization of Online Image Collections via Implicit Feedback

Shane Ahern, Simon King, Mor Naaman,
Rahul Nair, Yahoo! Research Berkeley

System for Reminding a User of Information Obtained through Web Browsing Experience

Tetsushi Morita, Tetsuo Hidaka, Akimichi Tanaka,
Yasuhisa Kato, NTT

The ScratchPad: Sensemaking Support for the Web

David Gotz, IBM Research

Towards Multi-granularity Multi-facet E-Book Retrieval

Chong Huang, Chinese Academy of Sciences
Yonghong Tian, Chinese Academy of Sciences
Zhi Zhou, Chinese Academy of Sciences
Tiejun Huang, Peking University

Visualizing Structural Patterns in Web Collections

Sadek Ali, University of Toronto
Mariano Consens, University of Toronto
Flavio Rizzolo, University of Toronto

XML and Web Data

Adaptive Record Extraction From Web Pages

Justin Park, University of Calgary
Denilson Barbosa, University of Calgary

Exploit Sequencing Views in Semantic Cache to Accelerate XPath Query Evaluation

Jianhua Feng, Na Ta, Yong Zhang,
Guoliang Li, Tsinghua University

Extensible Schema Documentation with XSLT 2.0

Felix Michel, ETH Zurich
Erik Wilde, UC Berkeley

Preserving XML Queries during Schema Evolution

Mirella Moro, University of California, Riverside
Susan Malaika, IBM Silicon Valley Lab
Lipyeow Lim, IBM T.J. Watson Research Center

SPath: A Path Language for XML Schema

Erik Wilde, UC Berkeley
Felix Michel, ETH Zurich

The Use of XML to Express a Historical Knowledge Base

Katsuko T. Nakahira, Nagaoka University of Technology
Masashi Matsui, Nagaoka University of Technology
Yoshiki Mikami, Nagaoka University of Technology

U-Rest: An Unsupervised Record Extraction System

Yuan Kui Shen, MIT
David Karger, MIT

XML-Based Multimodal Interaction Framework for Contact Center Applications

Nikolay Anisimov, Genesys Telecommunication Labs
Brian Galvin, Genesys Telecommunication Labs
Herbert Ristock, Genesys Telecommunication Labs

XML-Based XML Schema Access

Erik Wilde, UC Berkeley
Felix Michel, ETH Zurich

Thursday, May 10, 2007

Search and Data Mining

Academic Web Search Engine - Generating a Survey Automatically

Ye Wang, Zhihua Geng, Sheng Huang, Xiaoling Wang, Aoying Zhou, Fudan University

A Cautious Surfer for PageRank

Lan Nie, Baoning Wu, Brian Davison, Lehigh University

A Clustering Method for Web Data with Multi-Type Interrelated Components

Levent Boelli, Seyda Ertekin, Ding Zhou, C. Lee Giles, Pennsylvania State University

A Large-Scale Study of Robots.txt

Yang Sun, Ziming Zhuang, C. Lee Giles, Pennsylvania State University

A Link-Based Ranking Scheme for Focused Search

Tony Abou-Assaleh, Tapajyoti Das, Weizheng Gao, Yingbo Miao, Philip O'Brien, Zhen Zhen, GenieKnows.com

A Link Classification based Approach to Website Topic Hierarchy Generation

Nan Liu, The Chinese University of Hong Kong, Christopher Yang, The Chinese University of Hong Kong

A Search-based Chinese Word Segmentation Method

Xin-Jing Wang, IBM China Research Lab, Wen Liu, Huazhong University of Science and Technology, Yong Qin, IBM China Research Lab

Anchor-based Proximity Measures

Amruta Joshi, Ravi Kumar, Benjamin Reed, Andrew Tomkins, Yahoo! Research

Automatic Search Engine Performance Evaluation with Click-through Data Analysis

Yiqun Liu, Tsinghua University, Yupeng Fu, Tsinghua University, Min Zhang, Tsinghua University, Shaoping Ma, Tsinghua University, Liyun Ru, Sohu Incorporation

Automatic Searching of Tables in Digital Libraries

Ying Liu, Kun Bai, Prasenjit Mitra, C. Lee Giles, Pennsylvania State University

Bayesian Network based Sentence Retrieval Model

Keke Cai, Jiajun Bu, Chun Chen, Kangmiao Liu, Wei Chen, Zhejiang University

Brand Awareness and the Evaluation of Search Results

Bernard J. Jansen, Mimi Zhang, Ying Zhang, Pennsylvania State University

Causal Relation of Queries from Temporal Logs

Yizhou Sun, Peking University, Ning Liu, Microsoft Research Aisa, Kunqing Xie, Peking University, Shuicheng Yan, University of Illinois at Urbana Champaign, Benyu Zhang, Microsoft Research Asia, Zheng Chen, Microsoft Research Asia

Classifying Web Sites

Christoph Lindemann, Lars Littig, University of Leipzig

Comparing Apples and Oranges: Normalized PageRank for Evolving Graphs

Klaus Berberich, Max-Planck Institute for Informatics, Srikanta Bedathur, Max-Planck Institute for Informatics, Gerhard Weikum, Max-Planck Institute for Informatics, Michalis Vazirgiannis, INRIA/FUTURS

Designing Efficient Sampling Techniques to Detect Webpage Updates

Qingzhao Tan, Ziming Zhuang, Prasenjit Mitra, C. Lee Giles, Pennsylvania State University

Determining the User Intent of Web Search Engine Queries

Bernard J. Jansen, Pennsylvania State University, Danielle Booth, Pennsylvania State University, Amanda Spink, Queensland University of Technology

EPCI: Extracting Potentially Copyright Infringement Texts from the Web

Takashi Tashiro, Takanori Ueda, Taisuke Hori, Yu Hirate, Hayato Yamana, Waseda University

Efficient Training on Biased Minimax Probability Machine for Imbalanced Text Classification

Xiang Peng, Irwin King, The Chinese University of Hong Kong

Electoral Search Using the VerkiezingsKijker: An Experience Report

Valentin Jijkoun, Maarten Marx, Maarten de Rijke, Frank van Waveren, University of Amsterdam

Exploration of Query Context for Information Retrieval

Keke Cai, Chun Chen, Jiajun Bu, Zhiming Kang, Zhejiang University

First-order Focused Crawling

Qingyang Xu, Wanli Zuo, Jilin University

Generative Models for Name Disambiguation

Yang Song, Jian Huang, Isaac G. Councill, Jia Li, C. Lee Giles, Pennsylvania State University

GigaHash: Scalable Minimal Perfect Hashing for Billions of URLs

Denis Charles, Kumar Chellapilla, Anton Mityagin, Microsoft Live Labs

How NAGA Uncoils: Searching with Entities and Relations

Gjergji Kasneci, Fabian M. Suchanek, Maya Ramanath, Gerhard Weikum, Max-Planck-Institute

Identifying Ambiguous Queries in Web Search

Ruihua Song, Shanghai Jiao Tong University and Microsoft Research Asia, Zhenxiao Luo, Fudan University, Ji-Rong Wen, Microsoft Research Asia, Yong Yu, Shanghai Jiao Tong University, Hsiao-Wuen Hon, Microsoft Research Asia

Learning Information Diffusion Process on the Web

Xiaojun Wan, Jianwu Yang, Peking University

MedSearch: A Specialized Search Engine for Medical Information

Gang Luo, IBM T.J. Watson Research Center, Chunqiang Tang, IBM T.J. Watson Research Center, Hao Yang, IBM T.J. Watson Research Center, Xing Wei, University of Massachusetts Amherst

Mining Contiguous Sequential Patterns from Web Logs

Jinlin Chen, Queens College, CUNY, Terry Cook, Graduate Center, CUNY

Monitoring Evolution in Google's and MSN's Cache Directories

Ioannis Anagnostopoulos, University of the Aegean

Review Spam Detection

Nitin Jindal, Bing Liu, University of Illinois at Chicago

Web Page Classification with Heterogeneous Data Fusion

Zenglin Xu, Irwin King, Michael R. Lyu, Chinese University of Hong Kong

Friday, May 11, 2007

*Search and Data Mining***Multi-factor Clustering for a Marketplace Search Interface**

Neel Sundaresan, Kavita Ganesan,
Roopnath Grandhi, eBay Research Labs

On Ranking Techniques for Desktop Search

Sara Cohen, Technion Carmel Domshlak, Technion
Naama Zwerdling, Technion - Israel Institute of Technology

Query-Driven Indexing for Peer-to-Peer Text Retrieval

GGleb Skobeltsyn, Toan Luu, EPFL
Ivana Podnar Zarko, University of Zagreb
Martin Rajman, Karl Aberer, EPFL

Query Topic Detection for Reformulation

Xuefeng He, Peking University
Jun Yan, Microsoft Research Asia
Ning Liu, Microsoft Research Aisa
Jinwen Ma, Peking University
Zheng Chen, Microsoft Research Asia

SCAN: A Small-World Structured P2P Overlay for Multi-Dimensional Queries

Xiaoping Sun, Graduate School of Chinese Academy of Sciences

SRing: A Structured Non DHT P2P Overlay Supporting String Range Queries

Xiaoping Sun, Xue Chen, Graduate School of Chinese Academy of Sciences

Search Engine Retrieval of Changing Information

Yangsok Kim, University of Tasmania
Byeong Ho Kang, University of Tasmania
Paul Compton, University of New South Wales
Hiroshi Motoda, Osaka University

Search Engines and Their Public Interfaces: Which APIs are the Most Synchronized?

Frank McCown, Michael Nelson, Old Dominion University

Sliding Window Technique for the Web Log Analysis

Nikolai Buzikashvili, Institute of System Analysis, Russian Academy of Sciences

Spam and Popularity Ratings for Combating Link Spam

Mukesh Dalal, LDI

Summary Attributes and Perceived Search Quality

Daniel Rose, A9.com
David Orr, Yahoo! Inc.
Raj Gopal Prasad Kantamneni, Yahoo! Inc.

Tag Clouds for Summarizing Web Search Results

Byron Kuo, Thomas Hentrich, Benjamin M. Good,
Mark Wilkinson, University of British Columbia

Towards Efficient Dominant Relationship Exploration of the Product Items on the Web

Zhenglu Yang, Lin Li, Botao Wang,
Masaru Kitsuregawa, University of Tokyo

Understanding Web Search via a Learning Paradigm

Bernard J. Jansen, Brian Smith,
Danielle Booth, Pennsylvania State University

Using d-gap Patterns for Index Compression

Jinlin Chen, Queens College, CUNY
Terry Cook, Graduate Center, CUNY

Utility Analysis for Topically Biased PageRank

Christian Kohlschuetter, Paul - Alexandru Chirita,
Wolfgang Nejdl, L3S / University of Hannover

*Semantic Web***A Management and Performance Framework for Semantic Web Servers**

Malena Mesarina, HP Labs
Venugopal Srinivasmurthy, Hewlett Packard
Nic Lyons, Hewlett-Packard
Craig Sayers, HP Labs

A Probabilistic Semantic Approach for Discovering Web Services

Jiangang Ma, Victoria University
Jinli Cao, La Trobe University
Yanchun Zhang, Victoria University

Acquiring Ontological Knowledge from Query Logs

Satoshi Sekine, New York University
Hisami Suzuki, Microsoft Research

Altering Document Term Vectors for Classification - Ontologies as Expectations of Co-occurrence

Meenakshi Nagarajan, Kno.e.sis Center, Wright State University
Amit Sheth, Kno.e.sis Center, Wright State University
Marcos Aguilera, HP Labs
Kimberly Keeton, HP Labs
Arif Merchant, HP Labs
Mustafa Uysal, HP Labs

Building and Managing Personalized Semantic Portals

Melike Sah, Wendy Hall, University of Southampton

Deriving Knowledge from Figures for Digital Libraries

Xiaonan Lu, James Wang, Prasenjit Mitra, C. Lee Giles,
Pennsylvania State University

Development of a Semantic Web Based Mobile Local Search System

Joo-Seong Jeon, Gi-Jeong Lee, KTF R&D Group

Estimating the Cardinality of RDF Graph Patterns

Angela Maduko, University of Georgia
Kemafor Anyanwu, University of Georgia
Amit Sheth, Kno.e.sis Center, Wright State University
Paul Schliekelman, University of Georgia

Extending WebML towards Semantic Web

Federico Michele Facca, Marco Brambilla, Politecnico di Milano

Image Annotation by Hierarchical Mapping of Features

Qiankun Zhao, Prasenjit Mitra,
C. Lee Giles, Pennsylvania State University

Integrating Web Directories by Learning their Structures

Christopher Yang, The Chinese University of Hong Kong
Jianfeng Lin, The Chinese University of Hong Kong

Learning Ontologies to Improve the Quality of Automatic Web Service Matching

Hui Guo, Stony Brook University
Anca Ivan, IBM TJ Watson Research Center
Rama Akkiraju, IBM T. J. Watson Research Center

Ontology Engineering using Volunteer Labor

Benjamin Good, University of British Columbia
Mark D. Wilkinson, University of British Columbia

Semantic Personalization of Web Portal Contents

Christina Tziviskou, Politecnico di Milano
Marco Brambilla, Politecnico di Milano

The Largest Scholarly Semantic Network...Ever.

Johan Bollen, Marko Rodriguez, Herbert Van de Sompel,
Los Alamos National Laboratory

Saturday, May 12, 2007

Social Networks

BlogScope: Spatio-temporal Analysis of the Blogosphere

Nilesh Bansal, Nick Koudas, University of Toronto

EOS: Expertise Oriented Search Using Social Networks

Juanzi Li, Tsinghua University

Jie Tang, Tsinghua University

Jing Zhang, Tsinghua University

Qiong Luo, Hong Kong University of Science and Technology

Yunhao Liu, Hong Kong University of Science and Technology

Mingcai Hong, Tsinghua University

Exploring Social Dynamics in Online Media Sharing

Martin Halvey, University College Dublin

Mark Keane, University College Dublin

Finding Community Structure in Mega-scale Social Networks

Ken Wakita, Tokyo Institute of Technology

Toshiyuki Tsurumi, Tokyo Institute of Technology

Life is Sharable: Mechanisms to Support and Sustain Blogging

Life Experience

Yun-Maw Cheng, Tatung University

Tzu-Chuan Chou, Academia Sinica

Wai Yu, Queen's University Belfast

Li-Chieh Chen, Tatung University

Ching-Long Yeh, Tatung University

Meng-Chang Chen, Academia Sinica

Measuring Credibility of Users in an E-learning Environment

Wei Wei, Royal Institute of Technology

Jimmy Lee, The Chinese University of Hong Kong

Irwin King, The Chinese University of Hong Kong

Modeling User Behavior in Recommender Systems based on Maximum Entropy

Tomoharu Iwata, Kazumi Saito, Takeshi Yamada, NTT

Parallel Crawling for Online Social Networks

Duen Horng Chau, Shashank Pandit, Samuel Wang,

Christos Faloutsos, Carnegie Mellon University

Personalized Social & Real-Time Collaborative Search

Mukesh Dalal, LDI

Towards Extracting Flickr Tag Semantics

Tye Rattenbury, Nathan Good,

Mor Naaman, Yahoo! Research Berkeley

Systems

AutoPerf: An Automated Load Generator and Performance

Measurement Tool for Multi-tier Software Systems

Shrirang Shirodkar, Varsha Apte, IIT Bombay

Construction by Linking: The Linkbase Method

Johannes Meinecke, University of Karlsruhe

Frederic Majer, University of Karlsruhe

Martin Gaedke, Chemnitz University of Technology

Image Collector III: A Web Image-Gathering System with Bag-of-Keypoints

Keiji Yanai, Univ. of Electro-Communications

Mirror Site Maintenance Based on Evolution Associations of Web Directories

Ling Chen, L3S / University of Hannover

Sourav Bhowmick, Nanyang Technical University

Wolfgang Nejdl, L3S / University of Hannover

On Building Graphs of Documents with Artificial Ants

Hanane Azzag, Laboratoire d'Informatique de l'Universite de Paris-Nord

Julien Lavergne, Laboratoire d'Informatique de l'Universite de Tours

Gilles Venturini, Laboratoire d'Informatique de l'Universite de Tours

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Social Events

Tuesday, May 8, 2007

Web History Opening Reception Riverview Lounge, 5:00pm-6:00pm

Join us in the spacious Riverview Lounge to sample some wine and cheese and rub shoulders with the early pioneers of the Web. The opening session of the Web History program follows at 6:00 pm. Extra tickets available at the registration desk if you do not have a Tuesday pass for WWW2007.

Wednesday, May 9, 2007

WWW2007 Welcome Reception Van Horne Ballroom, 6:00pm-8:00pm

Gather with old friends and make many new ones during the Welcome Reception in the Van Horne Ballroom. Savour Canadian cuisine from "coast to coast", quench your thirst with 2 complimentary beverages (with more available from the cash bar), and enjoy some spectacular pictures and fascinating commentary from extreme-sports ace Will Gadd (ice climbing, rock climbing, and more). Bring your camera, and watch for some surprise guest appearances!

Thursday, May 10, 2007

WWW2007 Banquet Brewster's MountView Barbecue, 6:00pm-9:00pm

Join us for a true western barbecue experience at the Brewster's MountView Barbecue "donut tents" (indoor facility) on the outskirts of Banff. Enjoy good food, and lots of it, with 2 complimentary drink tickets, lively western music, and amazing after-dinner entertainment. In other words, lots of fun! Extra guest tickets may be purchased at the registration desk. Bus transportation to/from the event will be provided from the conference hotel, starting at 5:30pm.

Friday, May 11, 2007

Reception for WWW2007 Organizers Mount Stephen Hall, 7:00pm-9:00pm

There will be a reception for WWW2007 organizers and selected guests to celebrate a successful week in Banff. This reception is sponsored in part by the Web Science Research Initiative. Attendance is by invitation only.



The Massachusetts Institute of Technology and the University of Southampton have established a long-term research collaboration that aims to facilitate and produce the fundamental scientific advances necessary to guide the future design and use of the World Wide Web. The founding Directors are Tim Berners-Lee, Wendy Hall, Nigel Shadbolt and Daniel Weitzner.

The joint MIT-Southampton initiative provides a global forum for scientists and scholars from around the world to collaborate on the first multidisciplinary scientific research effort specifically designed to study the Web at all scales of size and complexity, and to develop a new discipline of Web science for future generations of researchers.

WSRI will generate a research agenda for understanding the scientific, technical and social challenges underlying the growth of the Web. WSRI research projects will weigh questions such as:

How do we access information and assess its reliability?

By what means may we assure its use complies with social and legal rules?

How will we preserve the Web over time?

WSRI will be headquartered at the Computer Science and Artificial Intelligence Laboratory (CSAIL) at MIT and at the School of Electronics and Computer Science (ECS) at the University of Southampton. Initial plans call for joint research projects, workshops and student/faculty exchanges.

Contact WSRI: info@webscience.org

www.webscience.org

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