

ISBN 978-1-59593-820-6 ACM Order # 614071



Main Page Table of Contents Author Index Sponsors & Supporters Conference Organization

Welcome to the HT'07 (Hypertext 2007) Proceedings

These CD-proceedings are a cross-platform medium which allows Windows and Mac users to share the same directory structure and access a common set of files. To navigate this CD a graphical web browser is required. The full-text content on this disk is in Adobe PDF format. A version Adobe Acrobat Reader is required to view the content.



Copyright © 2007 by the Association for Computing Machinery, Inc. (ACM). Permission to make digital or hard copies of portions of this work for personal or classroom use is granted without fee provided that copies are not made or distributed for profit or commercial advantage and that copies bear this notice and the full citation on the first page. Copyright for components of this work owned by others than ACM must be honored. Abstracting with credit is permitted. To copy otherwise, to republish, to post on servers or to redistribute to lists, requires prior specific permission and/or a fee. Request permission to republish from: Publications Dept., ACM, Inc. Fax +1 (212) 869-0481 or permissions@acm.org

For other copying of articles that carry a code at the bottom of the first or last page, copying is permitted provided that the per-copy fee indicated in the code is paid through the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

Notice to Past Authors of ACM-Published Articles

ACM intends to create a complete electronic archive of all articles and/or other material previously published by ACM. If you have written a work that has been previously published by ACM in any journal or conference proceedings prior to 1978, or any SIG Newsletter at any time, and you do NOT want this work to appear in the ACM Digital Library, please inform permissions@acm.org, stating the title of the work, the author(s), and where and when published.

ISBN: 978-1-59593-820-6

Additional copies may be ordered prepaid from: ACM Order Department General Post Office P.O. Box 30777, New York, NY 10087-0777

ACM Order Number 614071

Please be sure you have the latest version and updates of Acrobat installed. You can find it at: http://www.adobe.com/products/acrobat/update.html Made in the USA

Main Page	Table of Contents	Author Index	Sponsors & Supporters	Conference Organization
-----------	-------------------	--------------	-----------------------	----------------------------



Main Page Table of Contents Author Index Sponsors & Supporters Conference Organization

Foreword

It is our great pleasure to welcome you to the 18th International ACM Conference on Hypertext and Hypermedia 'Hypertext, The Web, and Beyond: Five Autonomous Programmes, One Unified Conference'. The conference takes place in the Manchester Museum in Manchester, UK. The museum is located within the University of Manchester campus in the centre of Manchester. The city also has a rich scientific and academic heritage, with The University of Manchester being the home to twenty Nobel Prize winners and of such academic achievements as the world's first stored programmable computer, the splitting of the atom and the world's largest steerable radio telescope.

There are many people to thank, and we must start with our local chairs Yeliz Yesilada, Darren Lunn, and Eleni Michailidou, who've done such an excellent job. Jamie Blustein and Rosemary Simpson, our hypertext curators, have also done sterling work organizing our Reading Room – both virtually and in reality at the conference. Mark Truran has promoted the ACM Student Research Competition for the first time at a Hypertext conference, and Jim Whitehead for organizing the Birds of a Feather meetings. Finally, Jessica Rubart for performing an outstanding job as our Posters and Demonstrations Chair.

Next we'd like to thank our sponsors and supporters, SIGWEB and the ACM for making the conference possible, Hoppers for crèche facilities, Eastgate, and Taylor and Francis for supporting our readings, Microsoft for supporting the Student Research Competition and finally, the University of Manchester's School of Computer Science along with the Information Management Group, for making the local organization possible.

This year we had a major increase in submissions on 2006, over both full technical papers, and posters and demonstrations. With submissions coming from over thirty countries across four continents from Belgium to Brazil, Italy to India, and South Korea to Sweden. With an acceptance rate of 35% the quality of the conference is maintained but with submissions such as 'Towards Better Understanding of Folksonomic Patterns', 'Revealing the Hidden Ethnography of User Browsing Behavior', and 'Assembly Lines: Web Generators as Hypertexts' our submission topics are significantly broadening.

These changes are also echoed in our Keynote, After Dinner Keynote, and Closing Plenary. Our Keynote is Professor Carole Goble, Director of the myGrid project (the largest UK e-Science pilot project), producer of the widely-used Taverna open source application (now part of the Open Middleware Infrastructure Institute). She is also the co-director of the e-Science North West regional centre. Our after dinner Keynote is Professor Wendy Hall, Head of School at the University of Southampton's School of Electronics and Computer Science. She is the founding Head of the Intelligence, Agents, Multimedia (IAM) research group and has published over 350 academic papers. In 2003 Wendy was appointed President of the British Computer Society (BCS) and is one of the few females to hold a fellowship of the Royal Academy of Engineering as well as being made a Commander of The Most Excellent Order of the British Empire (CBE), awarded in 2000. Finally, we all know our Closing Plenary speak er Theodor Holm Nelson, credited with first use of the words hypermedia, transclusion, founder of Project Xanadu; here we also see his new work on CosmicBook, and understand his ideas for the future.

ACM Hypertext, as a conference series, has always maintained very high quality standards, combined with a fairly strict adherence to the research topic of Hypertext and Hypermedia. Not giving in to the "hypertext and the Web are just the same" hype has allowed the conference to maintain its high profile, albeit at the expense of submission and attendance numbers. Not wishing to compromise on quality ACM Hypertext has taken a turn for broadening its scope. This has resulted in the five "a utonomous programmes" of ACM Hypertext 2007.

Hypertext is everywhere, in theory research, in very practical applications, in socie ty, in personal interfaces and in culture and communication. Separate program committees evaluated submissions in each of these tracks, resulting in a selection of high quality full and short papers that offer the conference attendees a varied but in depth view of current hypertext research.

Throughout the history of the ACM Hypertext Conference, researchers have tried to cap ture what hypertext really is. The Hypertext Models and Theory programme specifically targets this "hard core" formal study of structural, sculptural, spatial, open, dynamic and adaptive or any other type of hypertext (or Web-based Information System). The Models and Theory track has indeed attracted s ome visionary submissions that shape the future of WIS and hypertext systems and thus will become standard reference material in the future.

(Return to Top)

(Return to Top)	 Hypertext is alive and in use in various applications. The Practical Hypertext programme looked at collecting some of these applications of hypertext including The Web, Semantic Web, Web Engineering, and Web Design. These topics concern themselves with all aspects of making valuable everyday hypertext applications, not exclusively on the Web. As a result, the track has gathered a varie ty of papers which illustrate classical issues in practical hypertext, such as reverse linking, interesting hyperspace applications such as hyperspeech, user-assisted similarity estimation on the web, and lessons learnt from industrial semantic web applications and learning style applications. The inclusion of "Social Hypertext" this year as an explicit theme of the conference reflects the fact that this are has reached maturity. What is Social Hypertext? We might define it as Hyper text that gets better the more people use it - but Tim Berners-Lee would be the first to point out that this is exactly what the Web is. This year we made a specific effort to recruit committee members and reviewers from emerging research communities involved in technologies such as wikis and blogging and we circulated the Call for Papers we reviewed was that of analysis of the patterns of use of social software sites, but the area continues to evolve, and the committee's selection of papers reflects the width of the area. We hope to see this theme expand further in the future. The focus of Hypertext and the Person is on a human centered Web, with an eye towards enabling all users, including those with a diverse set of issues explored. Papers in this track address hypertext avigation, adaptations for individual needs, educational applications, and collabora tive hypermedia. When the first ACM Hypertext Workshop convened twenty years ago, most researchers believed that the chief obstacles to widespread use of hypertext were technical and economic. Could systems perform sufficiently quickly? Could link integrity be ac				
	microformats and weblog networks to the abstract realms of metafiction, sculptural, and feral hypertext, hypertext's impact on culture is as undeniable as it is, still, incompletely understo od.				
				y the conference, and h elp us the latest research in Hypertext	
	Simon Harper HT07 General Chair	Paul De Bra HT07 Hypertext Mod Chair	els and Theory Program	Vicki Hanson HT07 Hypertext and the Person Program Chair	
		Helen Ashman & Alexandra Cristea HT07 Practical Hypertext Program Chairs		Mark Bernstein HT07 Hypertext, Culture, and	
	Hugh C. Davis & Dave MillardComHT07 Hypertext and Society Program Chairs			Communication Program Chair	
Main Page	Table of Contents	Author Index	Sponsors & Support	ters Conference Organization	



Main Page		
Table of Contents		
Author Index		
Sponsors &		
Supporters		
Conference		
Organization		

(Return to Top)

Foreword

Table of Contents

Session 1: Keynote Address Session Chair: Yeliz Yesilada (University of Manchester)

The Return of the Prodigal Web (Page 1) Carole A. Goble (University of Manchester) Sean K. Bechhofer (University of Manchester)

Session 2: Practical Hypertext (1)

Session Chair: Alexandra I. Cristea (University of Warwick)

Experiments Toward Reverse Linking on the Web (Page 3) Yeliz Yesilada (University of Manchester) Darren Lunn (University of Manchester) Simon Harper (University of Manchester)

User-Assisted Similarity Estimation for Searching Related Web Pages (Page 11)

Lin Li (University of Tokyo) Zhenglu Yang (University of Tokyo) Kulwadee Somboonviwat (University of Tokyo) Masaru Kitsuregawa (University of Tokyo)

Lesson Learnt from a Large-Scale Industrial Semantic Web Application (Page 21)

Sylvia C. Wong (University of Southampton) Richard M. Crowder (University of Southampton) Gary B. Wills (University of Southampton) Nigel R. Shadbolt (University of Southampton)

Session 3: Posters, Demonstrations, and the Reading Room (1)

Session Chair: Jessica Rubart (Arvato Direct Services)

SEMPort — A Personalized Semantic Portal (Page 31)

Melike Şah (University of Southampton) Wendy Hall (University of Southampton) Nicholas M. Gibbins (University of Southampton) David C. De Roure (University of Southampton)

Experiments Towards Web 2.0 Accessibility (Page 33)

Elizabeth C. Stringer (University of Manchester) Yeliz Yesilada (University of Manchester) Simon Harper (University of Manchester)

Qtag: Introducing the Qualitative Tagging System (Page 35) Sung Eob Lee (*Korea Advanced Institute of Science and Technology*) Steve SanKi Han (*Korea Advanced Institute of Science and Technology*)

Search Habits of the Computer Literate (Page 37) James Wells (University of Teesside) Mark Truran (University of Teesside) James Goulding (University of Nottingham)

(Return to Top)

Tags, Networks, Narrative: Exploring the use of social software for the study of narrative in digital contexts (Page 39)

Bruce Lionel Mason (De Montfort University) Sue Thomas (De Montfort University)

Using Forum in an Organizational Learning Context (Page 41) Adeline Leblanc (University of Technology of Compiegne) Marie-Hélène Abel (University of Technology of Compiegne)

A Study into User Perceptions of Information Sharing and Trust in Virtual Teams (Page 43) Stephen Mogan (Manchester University) Weigang Wang (Manchester University)

Interaction Visualization in Web-Based Learning Using iGraphs (Page 45) Alvaro R. Figueira (Faculdade Ciências da Universidade do Porto) Joanne B. Laranjeiro (Faculdade Ciências da Universidade do Porto)

Predicting and Solving Web Navigation Problems (Page 47)

(Return to Top)

(Return to Top)

(Return to Top)

Mari Carmen Puerta Melguizo (Utrecht University) Herre van Oostendorp (Utrecht University) Ion Juvina (Carnegie Mellon University)

Visual Features in Genre Classification of HTML (Page 51)

Ryan Levering (SUNY at Binghamton) Michal Cutler (SUNY at Binghamton) Lei Yu (SUNY at Binghamton)

Wiki Literacy—Sandbox Knowledge for the Net (Page 53)

Anja Ebersbach (University of Konstanz) Markus Glaser (University of Konstanz)

Progressive Enhancement in the Real World (Page 55) John Wells (*Underscore Ltd.*) Chrisina Draganova (*London Metropolitan University*)

Session 4: Practical Hypertext (2)

Session Chair: Alexandra I. Cristea (University of Warwick)

Real Users, Real Results: Examining the Limitations of Learning Styles Within AEH (Page 57)

Elizabeth Brown (University of Nottingham) Tony Fisher (University of Nottingham) Tim Brailsford (University of Nottingham)

HSTP: Hyperspeech Transfer Protocol (Page 67)

Sheetal K. Agarwal (IBM India Research Laboratory) Dipanjan Chakraborty (IBM India Research Laboratory) Arun Kumar (IBM India Research Laboratory) Amit Anil Nanavati (IBM India Research Laboratory) Nitendra Rajput (IBM India Research Laboratory)

LLAMA: Automatic Hypertext Generation Utilizing Language Models (Page 77)

Dong Zhou (University of Nottingham) James Goulding (University of Nottingham) Mark Truran (University of Teesside) Tim Brailsford (University of Nottingham)

Clustering as an Approach to Support the Automatic Definition of Semantic Hyperlinks (Page 81)

José A. Camacho-Guerrero (Innolution Ltda.) Alex A. de Carvalho (Innolution Ltda.) Maria G. C. Pimentel (Universidade de São Paulo) Ethan V. Munson (University of Wisconsin, Milwaukee) Alessandra A. Macedo (Universidade de São Paulo)

Session 5: Hypertext & The Person

Session Chair: Vicki L. Hanson (IBM T.J. Watson Research Center)

Revealing the Hidden Rationality of User Browsing Behaviour (Page 85)

Elizabeth Brown (University of Nottingham) Tim Brailsford (University of Nottingham) Tony Fisher (University of Nottingham) Cees van der Eijk (University of Nottingham)

User-Tailored Web Accessibility Evaluations (Page 95)

Markel Vigo (University of the Basque Country) Alfred Kobsa (University of California, Irvine) Myriam Arrue (University of the Basque Country) Julio Abascal (University of the Basque Country)

Simplifying Web Traversals By Recognizing Behavior Patterns (Page 105)

Christian Doerr (University of Colorado at Boulder) Daniel von Dincklage (University of Colorado at Boulder) Amer Diwan (University of Colorado at Boulder)

Session 6: Hypertext Culture & Communication

Session Chair: Mark Bernstein (Eastgate)

Assembly Lines: Web Generators as Hypertexts (Page 115) Elizabeth Losh (University of California, Irvine)

What is an Analogue for the Semantic Web and Why is Having One Important? (Page 123) mc schraefel (University of Southampton)

The Evolution of Authorship in a Remix Society (Page 133) Nicholas Diakopoulos (*Georgia Institute of Technology*) Kurt Luther (*Georgia Institute of Technology*) Yevgeniy "Eugene" Medynskiy (*Georgia Institute of Technology*) Irfan Essa (*Georgia Institute of Technology*)

Session 7: Posters, Demonstrations, and the Reading Room (2) Session Chair: Jamie Blustein (Dalhousie University)

Breathalyzing Physio-cybertext (Page 137) Astrid Ensslin (Bangor University) **Strong vs. Weak Links: Making Processes Prevail Over Structure in Navigational Design** (Page 139) José H. Canós (*Technical University of Universidad Politécnica de Valencia*) Carlos Solís (*Technical University of Universidad Politécnica de Valencia*) M^a Carmen Penadés (*Technical University of Universidad Politécnica de Valencia*) Manuel Llavador (*Technical University of Universidad Politécnica de Valencia*)

Image Seeds: A Communal Picture-based Narrative (Page 141) Darren Lunn (University of Manchester)

Adaptive Incremental Browsing of Ontology Structure (Page 143) Mária Bieliková (Slovak University of Technology) Michal Jemala (Slovak University of Technology)

Incorporating Culture in User-interface: A Case Study of Older Adults in Malaysia (Page 145) Syariffanor Hisham (*University of York*) Alistair D. N. Edwards (*University of York*)

Transforming DITA Topics for Speech Synthesis Output (Page 147) Aidan Kehoe (*University College Cork*) Ian Pitt (*University College Cork*)

Toward Interactive Learning by Concept Ordering (Page 149) Shantanu Godbole (*IBM India Research Laboratory*) Sachindra Joshi (*IBM India Research Laboratory*)

Sameep Mehta (IBM India Research Laboratory) Ganesh Ramakrishnan (IBM India Research Laboratory)

Ontology Based Course Navigation (Page 151) Zdenek Velart (VSB-Technical University Ostrava) Petr Šaloun (University of Ostrava)

A Semantic Tool to Support Navigation in a Folksonomy (Page 153)

David Laniado (Politecnico di Milano) Davide Eynard (Politecnico di Milano) Marco Colombetti (Politecnico di Milano)

Collaborative Annotation-Driven Adaptation in Web Portals (Page 155)

Andreas Nauerz (IBM Research and Development) Stefan Pietschmann (Technische Universität Dresden) René Pietzsch (Technische Universität Dresden)

A Study of Publisher, Writer, and Reader: Different Perspectives on Digital Fiction (Page 157)

Hazel Wright (University of Sheffield) Daniela Petrelli (University of Sheffield)

Hypertext Applications (Page 159) Frank Wagner (Roskilde University)

Dynamic Link Service 2.0: using Wikipedia as a linkbase (Page 161) Patrick Sinclair (University of Southampton)

Paul H. Lewis (University of Southampton) Kirk Martinez (University of Southampton)

Session 8: Hypertext & Society (1)

Session Chair: Dave Millard (University of Southampton)

Towards Better Understanding of Folksonomic Patterns (Page 163) Hend S. Al-Khalifa *(University of Southampton)* Hugh C. Davis *(University of Southampton)*

Collaborative Classification of Growing Collections with Evolving Facets (Page 167) Harris Wu (Old Dominion University) Mohammad Zubair (Old Dominion University) Kurt Maly (University of Bamberg)

(Return to Top)

Does It Matter Who Contributes? — A Study on Featured Articles in the German Wikipedia (Page 171) Klaus Stein (University of Bamberg) Claudia Hess (University of Toronto)

Identifying Subcommunities Using Cohesive Subgroups in Social Hypertext (Page 175) Alvin Chin (University of Toronto) Mark Chignell (University of Toronto)

Session 9: After Dinner Keynote Address Introduced By: Ethan Munson (University of Wisconsin, USA / SIGWEB Chair) Back to the Future with Hypertext: A Tale of Two or Three Conferences (Page 179) Wendy Hall (University of Southampton)

(Return to Top) Session 10: Hypertext Models & Theory Session Chair: Paul De Bra (Eindhoven University of Technology)

> An Agile Hypertext Design Methodology (Page 181) Gary B. Wills (University of Southampton) Noura Abbas (University of Southampton) Rakhi Chandrasekharan (University of Southampton) Richard M. Crowder (University of Southampton)

Main Page	Table of Contents	Author Index	Sponsors & Supporters	Conference Organization	
	Session Chair: Yeliz Yesilada (University of Manchester) Back to the Future: Hypertext the Way It Used to Be (Page 227) Theodor Holm Nelson (Project Xanadu) Robert Adamson Smith (Project Xanadu) Marlene Mallicoat (Project Xanadu)				
(Return to Top)	Martin Halvey (University of Glasgow) Mark T. Keane (UCD Dublin) Session 12: Closing Plenary				
	Annotation Consensus: Implications for Passage Recommendation in Scientific Literature (Page 209) Shannon Bradshaw (Drew University) Marc Light (The Thomson Corporation) Analysis of Online Video Search and Sharing (Page 217)				
	ASSIST: Adaptive Social Support for Information Space Traversal (Page 199) Rosta Farzan (University of Pittsburgh) Maurice Coyle (University College Dublin) Jill Freyne (University College Dublin) Peter Brusilovsky (University of Pittsburgh) Barry Smyth (University College Dublin)				
	Session 11: Hypertext & Society (2) Session Chair: Hugh C. Davis (University of Southampton)				
	A Semantics-based Aspect-O Sven Casteleyn (Vrije Universi William Van Woensel (Vrije U Geert-Jan Houben (Vrije Unive	iteit Brussel) Iniversiteit Brussel)	tation in Web Engineering (Pa	age 189)	
	Architecting Structure-Aware Applications: The Structure Model (Page 185) Jessica Rubart (arvato direct services)				
	Lester Gilbert (University of Southampton) Yvonne Howard (University of Southampton) David E. Millard (University of Southampton) Sylvia C. Wong (University of Southampton) Robert J. Walters (University of Southampton)				



		J. Nathan Matias Emilia Mendes (Nick Montfort (U Cristina Muntean Theodor Holm N James Noble (Via Peter Nürnberg (Toshio Okamoto Alexandros Parat Helen Petrie (Un Enrico Pontelli (î T. V. Raman (Go Anja Rau (Blue M Sigi Reich (Salzb Jim Rosenberg (î Lloyd Rutledge (Demetrios Samps Daniel Schwabe Sunir Shah (Mea Frank F. Shipmat David Sloan (Un Craig Stewart (Q Hironobu Takagi Josie Taylor (The Mark Truran (Un Manolis Tzagaral Jacco van Ossent The Netherlarn Janet Verbyla (F.	purg Research, Austria) USA) (Telematica Instituut and C son (University of Piraeus, (Pontificia Univ. Catolica a tball) n (Texas A&M University, f iversity of Dundee, UK) ueen Mary, University of L (IBM Tokyo Research Lab e Open University, UK) niversity of Teesside, UK) kis (Computer Technology poruggen (Centrum voor Wis ads) (Inders University of South Frinity College, Dublin, Irel (The University of Manches ahl (NCIRL, Ireland)	idge, UK) w Zealand) USA) impton, UK) ton, New Zealand) imunications, Japan) istria) ty, USA) WI, The Netherlands) Greece) do Rio de Janeiro, Brazil) USA) ondon, UK) , Japan) Institute, Greece) skunde en Informatica, Australia, Australia) and)
Main Page	Table of Contents	Author Index	Sponsors & Supporters	Conference Organization

