Welcome to WikiSym 2009, the 5th International Symposium on Wikis and Open Collaboration!

WikiSym 2009 is taking place in beautiful Orlando, Florida, on the grounds of Disneyworld, at Disney's convention center. The event comprises three days of leading-edge wiki research and practice. The proceedings of WikiSym 2009 that you are looking at represent the permanent record of the event.

The overall program of WikiSym 2009 continues the success of prior years. At the event as well as in the proceedings you'll find not only the traditional technical papers, but also tutorials, workshops, panels, posters, and demos; a record of the growing breadth and depth of interest in wikis and related technologies. We are excited to note that Fernanda Viegas and Martin Wattenberg of IBM Research will be opening the symposium with a talk on "the inner lives of text" and that Brion Vibber of the Wikimedia Foundation will be closing the symposium with a talk on "community performance optimization". The two keynotes are only two examples of the exciting talks and events that will happen at WikiSym 2009.

Open collaboration is a paradigm shift facilitated by technology that continues to increase in impact. Reflecting this, we had an outstanding set of submitted research papers, demonstrating the field's growing significance and depth. Forty-five research papers were submitted this year, and sixteen were accepted, for an acceptance rate of 36%. All papers were reviewed by at least three reviewers, and some as many as five. Accepted papers come from nine countries (Brazil, Denmark, France, Germany, Italy, Japan, Singapore, Switzerland, and the USA).

One thing that is special about WikiSym is its use of open space. Not only does WikiSym offer the traditional content you just read about. Far beyond static talks, WikiSym is a community that comes together at the symposium in a collaborative setting called "open space". Open space (technology) is a meeting facilitation technique that ensures that everyone gets a voice and can bring the topics they are interested in to bear and meet other like-minded people. To support this (and other) ends, we have set up the WikiSym 2009 event wiki, as usual, and you can find it at:

http://www.wikisym.org/ws2009

The event wiki will provide additional content to what is presented in this proceedings and will paint a much more lively picture of the event that is WikiSym 2009.

You may have noticed the name change of the symposium: WikiSym is still WikiSym, but the long form now is "the International Symposium on Wikis and Open Collaboration". The WikiSym 2009 symposium committee as well as the overall WikiSym steering committee arrived at this name change after lengthy discussions. It is to signify our increasing scope, as you may have noticed when looking at the program or the proceedings' table of contents. Open collaboration stands for anything that involves open, not centrally controlled collaboration. It is typically egalitarian, meritocratic, and self-organizing.

An event like WikiSym 2009 needs the help, hands, and hearts of many people. The general chair and the program chair are only two people, and they critically rely on their respective committees. We would like to acknowledge the help of these people, as listed in the following pages under symposium committee and program committee. Thank you so much for making WikiSym 2009 happen!

Clearly, we are only at the beginning of an exciting growth curve of wikis and open collaboration in society, research, and technology. Thus, we are deeply satisfied to present with this proceedings another step along this way.

Enjoy WikiSym 2009!

Dirk Riehle
General Chair
SAP Labs LLC

Amy Bruckman
Program Chair
Georgia Tech
Table of Contents

Organization
  viii. Symposium Committee
  ix. Program Committee
  ix. Program Committee Technical Support
  x. Additional Reviewers
  x. Best Paper Committee

Invited Talks

Opening Keynote
  101. Visualizing the Inner Live of Texts by Fernanda Viégas and Martin Wattenberg (IBM Research)

Closing Keynote
  102. Community Performance Optimization: Making Your People Run as Smoothly as Your Site by Brion Vibber (Wikimedia Foundation)

Research Papers

Session: Learning and Social Context
  103. Understanding Learning - the Wiki Way by Joachim Kimmerle, Johannes Moskaliuk, and Ulrike Cress (University of Tuebingen) (Germany)

Session: Visualization
  104. rv you're dumb: Identifying Discarded Work in Wiki Article History by Michael D. Ekstrand, and John T. Riedl (University of Minnesota) (USA)
  105. Bipartite Networks of Wikipedia's Articles and Authors: a Meso-level Approach by Rut Jesus (University of Copenhagen), Martin Schwartz (University of Denmark), and Sune Lehmann (Northeastern University/Dana Farber Cancer Institute) (Denmark, USA)
  106. SAVVY Wiki: A Context-oriented Collaborative Knowledge Management System by Takafumi Nakanishi (National Institute of Information and Communications Technology, NICT), Koji Zettsu (NICT), Yutaka Kidawara (NICT), and Yasushi Kiyoki (Keio University) (Japan)

Session: Understanding Wikipedia
  108. The Singularity is Not Near: Slowing Growth of Wikipedia by Bongwon Suh, Gregorio Convertino, Ed H. Chi, and Peter Pirolli (Palo Alto Research Center) (USA)
Session: Programming and Analysis Tools

109. Lively Wiki - A Development Environment for Creating and Sharing Active Web Content by Robert Krahn (Hasso-Plattner-Institut), Dan Ingalls (Sun Microsystems), Robert Hirschfeld (Hasso-Plattner-Institut), Jens Lincke (Hasso-Plattner-Institut), and Krzysztof Palacz (Sun Microsystems) (Germany & USA)

110. AdessoWiki - On-line Collaborative Scientific Programming Platform by Roberto Lotufo, Rubens C. Machado, Andre Korbes, and Rafael G. Ramos (University of Campinas (UNICAMP)) (Brazil)

111. Analyzing the Wikisphere by Jeff Stuckman and James Purtilo (University of Maryland, College Park) (USA)

Session: Interface Tools

112. An Architecture to Support Intelligent User Interfaces for Wikis by Means of NLP by Johannes Hoffart, Torsten Zesch, and Iryna Gurevych (Technische Universitat Darmstadt) (Germany)

113. Social Search and Need-driven Knowledge Sharing in Wikis with Woogle by Hans-Jorg Happel (FZI Research Center for Information Technologies) (Germany)

114. Wikibugs: Using Template Messages in Open Content Collections by Loris Gaio (University of Trento), Matthijs den Besten (Ecole Polytechnique), Alessandro Rossi (University of Trento), and Jean-Michel Dalle (Universite Pierre et Marie Curie) (France, Italy)

Session: Quality and Credibility

115. A Jury of Your Peers: Quality, Experience and Ownership in Wikipedia by Aaron Halfaker (University of Minnesota), Aniket Kittur (Carnegie Mellon University, CMU), Robert Kraut (CMU), and John Riedl (University of Minnesota) (USA)

116. Assessing the Quality of Wikipedia Articles with Lifecycle Based Metrics by Thomas Wohner and Ralf Peters (Martin-Luther-University Halle-Wittenberg) (Germany)

Short Research Papers

Session: Quality and Credibility

117. Wiki Credibility Enhancement by Felix Halim, Wu Yongzheng, and Roland Yap (National University of Singapore) (Singapore)

Session: Understanding Wikipedia

118. Organizing the Vision for Web 2.0: A Study of the Evolution of the Concept in Wikipedia by Arnaud Gorgeon and E. Burton Swanson (UCLA) (USA)

Experience Reports

Session: Learning and Social Context

119. Wiki for Law Firms by Urs Egli (Egli Partners Attorneys-at-Law, Zurich, Switzerland) and Peter Sommerlad (HSR Hochschule fur Technik, Rapperswil, Switzerland)

145. knowIT, a Semantic Informatics Knowledge Management System by Laurent Alquier, Keith McCormick, and Ed Jaeger (Johnson & Johnson Pharmaceutical Research & Development, LLC, U.S.A)
Posters

120. Visualizing Intellectual Connections among Philosophers Using the Hyperlink & Semantic Data from Wikipedia by Sofia J. Athenikos and Xia Lin (Drexel University) (USA)

121. Cosmos: A Wiki Data Management System by Qinyi Wu, Calton Pu and Danesh Irani (Georgia Institute of Technology) (USA)

122. WiSyMon: Managing Systems Monitoring Information in Semantic Wikis by Frank Kleiner, Andreas Abecker and Sven F. Brinkmann (FZI Research Center for Information Technology) (Germany)

123. Wikis to Support Collaborative Web Spaces to Promote Youth Well-being by Shahper Vodanovich, Max Rohde, Ching-shen Dong and David Sundaram (University of Auckland) (New Zealand)

124. Wikipublisher: A Print-on-Demand Wiki by John Rankin (Affinity Limited), Craig Anslow, James Noble, Brenda Chawner, Donald Gordon (Victoria University of Wellington) (New Zealand)

125. DynaTable: A Wiki Extension for Structured Data by Carrie Arnold, Todd Fleming, David Largent, Chris Lüer (Ball State University) (USA)

126. Leveraging Crowdsourcing Heuristics to Improve Search in Wikipedia by Yasser Ganjisaffar, Sara Javanmardi and Cristina Lopes (University of California, Irvine) (USA)

127. Evaluating the Trustworthiness of Wikipedia Articles through Quality and Credibility by Sai T. Moturu and Huan Liu (Arizona State University) (USA)

128. Comparison of Middle School, High School and Community College Students’ Wiki Activity in Globaloria-West Virginia (Pilot Year-Two) by Rebecca Reynolds (Syracuse University) and Idit Harel Caperton (World Wide Workshop Foundation) (USA)

129. The Social Roles of Bots and Assisted Editing Programs by R. Stuart Geiger (Georgetown University) (USA)

130. Incremental Knowledge Acquisition in Software Development Using a Weakly-Typed Wiki by Filipe F. Correia, Hugo S. Ferreira, Nuno Flores and Ademar Aguiar (Universidade do Porto) (Portugal)

131. Pre-service Teachers’ Experiences with Wiki: Challenges of Asynchronous Collaboration by Diler Öner (Boğaziçi University) (Turkey)

132. Increasing the Accuracy of Wiki Searches Using Semantic Knowledge Engine and Semantic Archivist by Gretchen Lowerison and Michael Lowerison (Coreidea Innovation Inc.) (Canada)

133. Collective Intelligence Approach for Formulating a BOK of Social Informatics, an Interdisciplinary Field of Study by Yoshifumi Masunaga, Yoshiyuki Shoji, Kazunari Ito (Aoyama Gakuin University) (Japan)

134. Understanding Information Sharing in Software Development through Wiki Log Analysis by Ammy Jiranida Phuwanartmurak and David G. Hendry (University of Washington) (USA)

Panels

135. Creating “the Wikipedia of pros and cons” by Brooks Lindsay (Debatepedia) (USA)

Workshops

136. Why Wikis Work by Christoph Schneider (City University of Hong Kong) (China)

137. The Value of Corporate Wikis by Lakshmi Goel (University of North Florida) and Iris Junglas (University of Houston) (USA)

138. Wikis for Software Engineering by Ademar Aguiar (Universidade do Porto) (Portugal)
Tutorials
139. Measuring Wikipedia by Luca De Alfaro (University of California, Santa Cruz) (USA) and Felipe Ortega (Universidad Rey Juan Carlos) (Spain)
140. Wikis for Software Engineering by Ademar Aguiar (Universidade do Porto) (Portugal)
141. Wiki Entrepreneurship by Stewart Mader (Independent) (USA)

Demos
142. 3DWiki: The 3D Wiki Engine by Jacek Jankowski, Marek Jozwowicz, Yolanda Cobos, Bill McDaniel, Stefan Decker (National University of Ireland) (Ireland)
143. ProveIt: A New Tool for Supporting Citation in MediaWiki by Kurt Luther, Matthew Flaschen, Andrea Forte, Christopher Jordan, Amy Bruckman (Georgia Institute of Technology) (USA)
144. Suffr: Democratic Control of Computing Infrastructure by Kirk Zurell (Independent) (Canada)

Author Index

Sponsors and Supporters
## Organization

### Symposium Committee

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symposium Chair</td>
<td>Dirk Riehle, SAP Labs LLC, USA</td>
</tr>
<tr>
<td>Program Chair</td>
<td>Amy Bruckman, Georgia Institute of Technology, USA</td>
</tr>
<tr>
<td>Sponsorships Chair</td>
<td>Ademar Aguiar, FEUP, Universidade do Porto, Portugal</td>
</tr>
<tr>
<td>Doctoral Symposium Chair</td>
<td>Luca de Alfaro, University of California at Santa Cruz, USA</td>
</tr>
<tr>
<td>Posters Chair</td>
<td>Claus Atzenbeck, Aalborg University Esbjerg, Denmark</td>
</tr>
<tr>
<td>Wikimedia Liaison</td>
<td>Phoebe Ayers, University of California at Davis</td>
</tr>
<tr>
<td>Experience Reports Chair</td>
<td>Robert Biddle, Carleton University</td>
</tr>
<tr>
<td>Publicity Co-Chair</td>
<td>Martin Cleaver, Blended Perspectives, Canada</td>
</tr>
<tr>
<td>Honorary Member</td>
<td>Ward Cunningham, AboutUs.org and Cunningham &amp; Cunningham, USA</td>
</tr>
<tr>
<td>Tutorials Chair</td>
<td>Alain Désilets, National Research Council of Canada, Canada</td>
</tr>
<tr>
<td>Open Space Facilitator</td>
<td>Ted Ernst, AboutUs.org, USA</td>
</tr>
<tr>
<td>WikiWalk Organizer</td>
<td>Camille Rose, Chevron Corp., and Me So Wise</td>
</tr>
<tr>
<td>Webmaster</td>
<td>Marc Laporte, TikiWiki CMS/Groupware</td>
</tr>
<tr>
<td>WikiFest Chair</td>
<td>Stewart Mader, Future Changes</td>
</tr>
<tr>
<td>Asia Coordinator</td>
<td>Yoshifumi Masunaga, Aoyama Gakuin University, Japan</td>
</tr>
<tr>
<td>Honorary Member</td>
<td>James Noble, Victoria University of Wellington, New Zealand</td>
</tr>
<tr>
<td>Publicity Co-Chair</td>
<td>Felipe Ortega, Rey Juan Carlos University, Spain</td>
</tr>
<tr>
<td>Panels Chair</td>
<td>Sébastien Paquet, Université du Québec à Montréal, Canada</td>
</tr>
<tr>
<td>Demonstrations Chair</td>
<td>Pattarawan Prasarnphanich, Sasin Graduate Institute of Business Administration, Thailand</td>
</tr>
<tr>
<td>Workshops Chair</td>
<td>Christian Wagner, City University of Hong Kong, China</td>
</tr>
</tbody>
</table>
Program Committee

Ademar Aguiar, FEUP, Universidade do Porto, Portugal
Luca de Alfaro, University of California at Santa Cruz, USA
Panagiota Alevizou, London School of Economics and Political Science, UK
Mark Bernstein, Eastgate Systems, USA
Robert Biddle, Carleton University, Canada
Amy Bruckman, Georgia Institute of Technology, USA (Program Chair)
Thomas N. Burg, BlogTalk, Socialware, MindMeister, Austria
Ed H. Chi, PARC, USA
Ulrike Cress, Knowledge Media Research Center, Tuebingen, Germany
Kevin Crowston, Syracuse University, USA
Chris Dent, Peermore Limited, UK
Alain Desilets, National Research Council of Canada, Canada
Andrea Forte, Georgia Institute of Technology, USA (Associate Program Chair)
Frank Fuchs-Kittowski, Fraunhofer ISST, Germany
Andrea D. Gorbatai, Harvard Business School, Harvard University, USA
Susan C. Herring, Indiana University, USA
Brian Ingerson, Socialtext, USA
Benjamin Mako Hill, Massachusetts Institute of Technology, USA
Aniket Kittur, Carnegie Mellon University, USA
Sky Marsen, Macquarie University, Australia
David W. McDonald, University of Washington, USA
Paulo Merson, Software Engineering Institute, USA
David Millard, University of Southampton, UK
Stuart Moulthrop, University of Baltimore, USA
Pattarawan Prasamphanich, Sasin Graduate Institute of Business Administration, Thailand
Joseph Reagle, New York University, USA
Camille Roth, CNRS, France
Frank Shipman, Texas A&M University, USA
Dario Taraborelli, University of Surrey, UK
Fernanda B. Viegas, IBM Research, USA

Program Committee Technical Support

Matthew Flaschen, Georgia Tech
Additional Reviewers

Pippin Barr, Carleton University
Ivan Beschastnikh, University of Washington
Moira Burke, Carnegie Mellon University
Terrance Fung, City University of Hong Kong
Andreas Gohr, cosmocode GmbH
James Howison, Syracuse University
Detlef Huettemann, cosmocode GmbH
Rilla Khaled, Carleton University
Joachim Kimmerle, University of Tubingen
Travis Kriplean, University of Washington
Jean Lai, City University of Hong Kong
Johannes Moskaliukm, University of Tubingen
Felipe Ortega, Libresoft, University Rey Juan Carlos
Katherine Panciera, University of Minnesota
Dirk Riehle, SAP Research, SAP Labs LLC
Savanid Vatanasakdakul, Mcquarie University
Martin Wattenberg, IBM

Best Paper Committee

Panagiota Alevizou, London School of Economics and Political Science
Martin Cleaver, Blended Perspectives
Kevin Crowston, Syracuse University
Chris Dent, Peermore Limited
Felipe Ortega, Libresoft, University Rey Juan Carlos