Conference Co-Chairs: Stuart Feldman, IBM Research, USA

Mike Uretsky, New York University, USA

Program Committee Co-Chairs: Marc Najork, Microsoft Research, USA

Craig Wills, Worcester Polytechnic Institute, USA

**Program Committee Vice Chairs:** 

Applications: Corin Anderson, Google, USA (Vice Chair)

Prashant Shenoy, University of Massachusetts, USA (Deputy Vice Chair)

Browsers and UI: Andreas Paepcke, Stanford University, USA (Vice Chair)

Bay-Wei Chang, Google, USA (Deputy Vice Chair)

**Data Mining:** Krishna Bharat, *Google, USA (Vice Chair)* 

Ramakrishnan Srikant, IBM Research, USA (Deputy Vice Chair)

Electronic Commerce: David Pennock, Yahoo! Labs, USA

Mark Manasse, Microsoft Research, USA

**Mobility and Wireless Access:** Yoelle Maarek, *IBM Research, Israel (Vice Chair)* 

Jason Nieh, Columbia University, USA (Deputy Vice Chair)

**Performance and Reliability:** Mike Dahlin, University of Texas Austin, USA (Vice Chair)

Steve Gribble, University of Washington, USA (Deputy Vice Chair)

Search: Prabhakar Raghavan, Verity, USA (Vice Chair)

Jon Kleinberg, Cornell University, USA (Deputy Vice Chair)

Security and Privacy: Brian LaMacchia, Microsoft, USA (Vice Chair)

Patrick McDaniel, AT&T Labs-Research, USA (Deputy Vice Chair)

**Semantic Web:** Peter Patel-Schneider, Bell Labs, USA (Vice Chair)

Steffen Staab, University of Karlsruhe, Germany (Deputy Vice Chair)

Web Engineering: Daniel Schwabe, PUC Rio, Brazil (Vice Chair)

Martin Gaedke, University of Karlsruhe, Germany (Deputy Vice Chair)

**Alternate Track Chairs:** 

**Education:** Peter Brusilovsky, *University of Pittsburgh, USA (Co-Chair)* 

Wolfgang Nejdl, University of Hannover, Germany (Co-Chair)

Industrial Practice: Raymie Stata, University of California Santa Cruz, USA (Chair)

William Cook, University of Texas Austin, USA (Deputy Chair)

Web of Communities: David De Roure, University of Southampton, UK (Co-Chair)

Liddy Nevile, La Trobe University, Australia (Co-Chair)

Web Services: Francisco Curbera, IBM Research, USA (Chair)

Mike Papazoglou, Tilburg University, The Netherlands (Deputy Chair)

**W3C:** Marie-Claire Forgue, W3C, France

Panels: Lloyd Rutledge, CWI Amsterdam, The Netherlands (Chair)

Mary Ellen Zurko, IBM, USA (Deputy Chair)

**Posters:** Irwin King, *Chinese University of Hong Kong, China (Chair)* 

Weisong Shi, Wayne State University, USA (Deputy Chair)

Tutorials and Workshops: Arun Iyengar, IBM Research, USA (Co-Chair)

Bebo White, Stanford Linear Accelerator Center, USA (Co-Chair) Yih-Farn Robin Chen, AT&T Labs—Research, USA (Deputy Chair)

**Developers Day:** Jim Hendler, *University of Maryland College Park, USA (Chair)* 

Rohit Khare, University of California Irvine, USA (Deputy Chair)

IW3C2 Liaison to WWW2004: Vincent Shen, Hong Kong University of Science & Technology, China

### **Program Committee Members:**

**Applications:** Corin Anderson, *Google, USA (Vice Chair)* 

Prashant Shenoy, University of Massachusetts, USA (Deputy Vice Chair)

Mostafa Ammar, Georgia Institute of Technology, USA

Roberto J. Bayardo, IBM Research, USA

Elisa Bertino, *Università degli Studi di Milano, Italy* Nina Bhatti, *Hewlett-Packard Laboratories, USA* Steve Hand, *University of Cambridge, UK* 

Ketan Mayer-Patel, University of North Carolina at Chapel Hill, USA

Misha Rabinovich, AT&T Labs-Research, USA

Andry Rakotonirainy, Queensland University of Technology, Australia

Krithi Ramamritham, IIT Bombay, India

Sean Rhea, *University of California Berkeley, USA* Matt Richardson, *University of Washington, USA* 

Timothy Roscoe, Intel Research, USA

Gustavo Rossi, LIFIA-F.Informatica, UNLP, Argentina

Anees Shaikh, IBM Research, USA

Jonathan Trevor, Fuji-Xerox Palo Alto Laboratory, USA

Maarten van Steen, Vrije Universiteit Amsterdam, The Netherlands

#### **Additional Reviewers:**

Sam Madden, Massachusetts Institute of Technology, USA

Browsers and UI: Andreas Paepcke, Stanford University, USA (Vice Chair)

Bay-Wei Chang, Google, USA (Deputy Vice Chair)

Jan Borchers, RWTH Aachen, Germany

Yi-Farn Robin Chen, AT&T Labs-Research, USA

Steve Cousins, *IBM Research*, *USA* Gene Golovchinsky, *Fuji Xerox*, *USA* 

Kaj Grønbæk, University of Aarhus, Denmark

Juan-Pablo Hourcade, US Bureau of the Census, USA

Michael R. Lyu, Chinese University of Hong Kong, China

Wei-Ying Ma, Microsoft Research, China

Gary Marchionini, University of North Carolina at Chapel Hill, USA

Jock MacKinley, *PARC, USA* Vibhu Mittal, *Google, USA* 

Erich Neuhold, IPSI, Germany

Dave Raggett, W3C & Canon, UK

Aya Soffer, IBM Research, Israel

Don Turnbull, University of Texas, USA

Howard Wactlar, Carnegie Mellon University, USA

Terry Winograd, Stanford University, USA

Polle Zellweger, MacZell Consulting, USA

**Data Mining:** Krishna Bharat, *Google, USA (Vice Chair)* 

Ramakrishnan Srikant, IBM Research, USA (Deputy Vice Chair)

Charu C. Aggarwal, IBM Research, USA

Soumen Chakrabarti, Indian Institute of Technology, Mumbai, India

Usama M. Fayyad, *DMX Group, USA* Johannes Gehrke, *Cornell University, USA* 

**Data Mining (continued):** Lee Giles, Penn State University, USA

Daniel Gruhl, IBM Research, USA

Jiawei Han, University of Illinois, USA

Haym Hirsh, Rutgers University, USA

Thomas Hofmann, Brown University, USA

Nicholas Kushemerick, University College Dublin, Ireland

Bing Liu, University of Illinois, USA

Andrew McCallum, University of Massachusetts, USA

Vibhu Mittal, Google, USA

Rajeev Motwani, Stanford University, USA

Raymond Ng, University of British Columbia, Canada

David Pennock, Yahoo! Labs, USA

Raghu Ramakrishnan, University of Wisconsin, USA

Mehran Sahami, Google & Stanford University, USA

#### **Additional Reviewers:**

Shumeet Baluja, Googl., USA

Thorsten Brants, Google, USA

Monika Henzinger, Google, USA

Wei Li, University of Massachusetts Amherst, USA

Vanessa Murdock, University of Massachusetts Amherst, USA

Jay Ponte, Google, USA

Charles Sutton, University of Massachusetts Amherst, USA

### **Education:**

Peter Brusilovsky, University of Pittsburgh, USA (Co-Chair)

Wolfgang Nejdl, University of Hannover, Germany (Co-Chair)

Helen Ashman, University of Nottingham, UK

Borka Blazic, JSI, Slovenia

Jacqueline Bourdeau, LICEF, Canada

Paul de Bra, Eindhoven University of Technology, The Netherlands

Ricardo Conejo, University of Malaga, Spain

Erik Duval, University of Leuven, Belgium

Monique Grandbastien, LORIA, France

Maria Grigoriadou, University of Athens, Greece

Joerg Haake, FU Hagen, Germany

Marek Hatala, Simon Frazer, Canada

Judy Kay, University of Sydney, Australia

Alfred Kobsa, University of California at Irvine, USA

Janet Kolodner, Georgia Tech, USA

Rob Koper, Open University, Netherlands

Lisa Neal, EDS, USA

Thomas Ottmann, University of Freiburg, Germany

Melissa Lee Price, Staffordshire University, UK

Juan Quemada, UPM, Spain

Dan Rehak, Carnegie Mellon University, USA

Jeremy Roschelle, SRI International, USA

Vittorio Scarano, University of Salerno, Italy

Peter Scott, Knowledge Media Institute / Open University, UK

Ralf Steinmetz, TU Darmstadt, Germany

Rudi Studer, University of Karlsruhe, Germany

Dan Suthers, University of Hawaii, USA

Vincent Wade, Trinity College Dublin, Ireland

#### Additional Reviewers:

Lynda Hardman, CWI, The Netherlands

Tanja Mitrovic, U. of Canterbury, New Zealand

monica m. c. schraefel, University of Southampton, UK

Industrial Practice: Raymie Stata, University of California Santa Cruz, USA (Co-Chair)

William Cook, University of Texas Austin, USA (Co-Chair)

Amit Singhal, Google, USA

Arthur Keller, University of California Santa Cruz & Minerva Consulting, USA

David Thomas, Bedarra Research Labs, USA

Gregory Cobena, *INRIA*, *France*Jean-Jacques Moreau, *Canon*, *France* 

Mario Jeckle, University of Applied Sciences Furtwangen, Germany

Ron Bodkin, New Aspects of Software Inc., USA

Mobility and Wireless Access: Yoelle Maarek, IBM Research, Israel (Vice Chair)

Jason Nieh, Columbia University, USA (Deputy Vice Chair)

Fred Douglis, IBM Research, USA

Dorée Duncan Seligmann, Avaya Labs, USA

Minoru Etoh, DoCoMo Communications Laboratories USA

Miki Herscovici, IBM Research, Israel

Johan Hjelm, Ericcson, Sweden

Rittwik Jana, AT&T Labs-Research, USA Gail Kaiser, Columbia University, USA Wei-Ying Ma, Microsoft Research, China

Amy L. Murphy, University of Rochester, USA

Bill Schilit, *Intel Research, USA* John R Smith, *IBM Research, USA* Vova Soroka, *IBM Research, Israel* 

#### **Additional Reviewers:**

Lynne Brotman, Avaya Labs Research, USA Anjum Khan, Avaya Labs Research, USA Reinhard Klemm, Avaya Labs Research, USA P Krishnan, Avaya Labs Research, USA

Albert Lai, Columbia University, USA

Maria Papadopouli, University of North Carolina, USA

Michael Sammon, Avaya Labs Research, USA Xueshan Shan, Avaya Labs Research, USA Gong Su, Columbia University, USA

### Performance and Reliability:

Mike Dahlin, University of Texas Austin, USA (Vice Chair)

Steve Gribble, University of Washington, USA (Deputy Vice Chair)

Ernst W. Biersack, Institut EURECOM, France

Lucy Cherkasova, HP Labs, USA

Edith Cohen, AT&T Labs-Research, USA Michele Colajanni, University of Modena, Italy

Mark Crovella, Boston University, USA

John Dilley, Akamai, USA

Mor Harchol-Balter, Carnegie Mellon University, USA

Jayant R. Haritsa, IIT Bangalore, India

Idit Keidar, Technion, Israel

Alex Rousskov, Measurement Factory, USA

Srinivasan Seshan, Carnegie Mellon University, USA

Amin Vahdat, Duke University, USA

Geoffrey M. Voelker, University of California San Diego, USA

Werner Vogels, Cornell University, USA Alec Wolman, Microsoft Research, USA

Rich Wolski, University of California Santa Barbara, USA

Jian Yin, IBM Research, USA

Zheng Zang, Microsoft Research, China

#### Performance and Reliability: Additional Reviewers:

Mauro Andreolini, Università di Roma, Italy

Leeann Bent, University of California San Diego, USA

Claudia Canali, Università degli Studi di Parma, Italy

Brent Chun, Intel Research, USA

Yun Fu, Duke University, USA

Sven Graupner, Hewlett-Packard Laboratories, USA

M Bharat Kumar, Indian Institute of Science, India

Riccardo Lancellotti, Università di Modena e Reggio Emilia, Italy

David Oppenheimer, University of California Berkeley, USA

G. Ravindra, Indian Institute of Science, India

Suresha, Indian Institute of Science, India

Wenting Tang, Hewlett-Packard Laboratories, USA

Howard Tsai, Stanford University, USA

Sathish Vadhiyar, Indian Institute of Science, India

Li Xiao, Michigan State University, USA

### Search: Prabhakar Raghavan, Verity, USA (Vice Chair)

Jon Kleinberg, Cornell University, USA (Deputy Vice Chair)

Serge Abiteboul, INRIA, France

Andrei Broder, IBM Research, USA

Junghoo Cho, University of California Los Angeles, USA

Brian Davison, Lehigh University, USA

Susan Dumais, Microsoft Research, USA

Ron Fagin, IBM Research, USA

R.V. Guha, IBM Research, USA

Luis Gravano, Columbia University, USA

Taher Haveliwala, Google, USA

Thorsten Joachims, Cornell University, USA

Nick Koudas, AT&T Labs-Research, USA

S. Ravi Kumar, IBM Research, USA

Mark Manasse, Microsoft Research, USA

Chris Manning, Stanford University, USA

Filippo Menczer, University of Indiana, USA

Frank McSherry, Microsoft Research, USA

Davood Rafiei, University of Alberta, Canada

Sridhar Rajagopalan, IBM Research, USA

D. Sivakumar, IBM Research, USA

Andrew Tomkins, IBM Research, USA

Panayiotis Tsaparas, University of Toronto, Canada

David Williamson, IBM Research, USA

### Security and Privacy: Brian LaMacchia, Microsoft, USA (Vice Chair)

Patrick McDaniel, AT&T Labs-Research, USA (Deputy Vice Chair)

Bill Aiello, AT&T Labs-Research, USA

Lorrie Cranor, Carnegie Mellon University, USA

Eric Cronin, University of Pennsylvania, USA

Roger Dingledine, The Free Haven Project, USA

Jeremy Epstein, webMethods, USA

Marit Hansen, Independent Centre for Privacy Protection, Germany

Trent Jaeger, IBM Research, USA

Somesh Jha, University of Wisconsin, USA

Tadayoshi Kohno, University of California San Diego, USA

Brian Neil Levine, University of Massachusetts Amherst, USA

Peng Liu, Pennsylvania State University, USA

Security and Privacy (continued): Fabian Monrose, Johns Hopkins University, USA

Atul Prakash, University of Michigan, USA

Niels Provos, Google, USA

Kai Rannenberg, Goethe University Frankfurt, Germany

Subhabrata Sen, AT&T Labs—Research, USA Dawn Song, Carnegie Mellon University, USA

Dan S. Wallach, Rice University, USA

Mary Ellen Zurko, IBM, USA

#### **Additional Reviewers:**

Andreas Albers, Goethe University Frankfurt, Germany Mihai Christodorescu, University of Wisconsin, USA Vinod Ganapathy, University of Wisconsin, USA Ulrich Kuehn, Dresdner Bank, Germany

D. 1 M.1: I. I. I. I. I.

Breno de Medeiros, Johns Hopkins University, USA

### Semantic Web: Peter Patel-Schneider, Bell Labs, USA (Vice Chair)

Steffen Staab, University of Karlsruhe, Germany (Deputy Vice Chair)

Karl Aberer, EPFL, Switzerland

Sean Bechhofer, University of Manchester, UK

Paul Buitelaar, DFKI, Germany

Mark Burstein, BBN Technologies, USA

Christoph Bussler, Oracle, USA

Stephen Buswell, Stilo Technology, UK

Jeremy Carroll, HP Labs, UK

Vassilis Christophides, ICS-FORTH, Greece

Fabio Ciravegna, University of Sheffield, UK

Isabel Cruz, University of Illinois at Chicago, USA

Stefan Decker, USC ISI, USA

Peter Eklund, The University of Wollongong, Australia

Jerome Euzenat, INRIA, France

James Farrugia, University of Maine, USA

George Ferguson, University of Rochester, USA

Enrico Franconi, Free University of Bozen-Bolzano, Italy

Aldo Gangemi, CNR, Italy

Ramanathan Guha, IBM Research, USA

Koiti Hasida, AIST, Japan

Jeff Heflin, Lehigh University, USA

Ziv Hellman, Unicorn Solutions, Israel

Ian Horrocks, University of Manchester, UK

Jane Hunter, DTSC, Australia

Manolis Koubarakis, Technical University of Crete, Greece

Nick Kushmerick, University College Dublin, Ireland

Bertram Ludaescher, San Diego Supercomputer Center, USA

Alexander Maedche, Robert Bosch GmbH, Germany

Raphael Malyankar, Arizona State University, USA

Sheila McIlraith, University of Toronto, Canada

Riichiro Mizoguchi, Osaka University, Japan

Enrico Motta, The Open University, UK

John Mylopoulos, University of Toronto, Canada

Wolfgang Neidl, University of Hannover, Germany

Natasha Noy, Stanford University, USA

Michael Smith, Electronic Data Systems, USA

Guus Schreiber, Vrije Universiteit Amsterdam, The Netherlands

Semantic Web (continued): Nigel Shadbolt, University of Southampton, UK

Amit Sheth, University of Georgia, USA

Mike Uschold, Boeing, USA

Frank van Harmelen, Vrije Universiteit Amsterdam, The Netherlands

Jacco van Ossenbruggen, CWI, The Netherlands Raphael Volz, University of Karlsruhe, Germany

### **Additional Reviewers:**

Sudhir Agarwal, University of Karlsruhe, Germany

Grigoris Antoniou, ICS-FORTH and University of Crete, Greece

Anastasia Analyti, ICS-FORTH, Greece

Jean-François Baget, INRIA, France

Christopher Bennet, University of Georgia, USA

Philip Cimiano, University of Karlsruhe, Germany

Philippe Cudre-Mauroux, EPFL, Switzerland

John Domingue, The Open University, UK

Martin Dzbor, *The Open University, UK* 

Andreas Eberhard, University of Karlsruhe, Germany

Eric Gaussier, Xerox Research Centre Europe, France

Steve Gribble, University of Washington, USA

Peter Haase, University of Karlsruhe, Germany

Siegfried Handschuh, University of Karlsruhe, Germany

Farshad Hakimpour, The Open University, UK

Lynda Hardman, CWI Amsterdam, the Netherlands

Jens Hartmann, University of Karlsruhe, Germany

Andreas Hotho, University of Karlsruhe, Germany

José Iria, University of Sheffield, UK

Holger Knublauch, Stanford University, USA

Francis Kwong, University of Manchester, UK

Lei Li, University of Manchester, UK

Swapna Oundhakar, University of Georgia, USA

Romand Schmidt, EPFL, Switzerland

Christoph Schmitz, University of Karlsruhe, Germany

Arthur Stutt, The Open University, UK

Dmitry Tsarkov, University of Manchester, UK

Daniele Turi, University of Manchester, UK

Michalis Vazirgiannis, Athens University of Economic and Business, Greece

Paola Velardi, University of Rome "La Sapienza", Italy

Kunal Verma, University of Georgia, USA

Huiyong Xiao, University of Illinois at Chicago, USA

### Web Engineering:

Daniel Schwabe, PUC Rio, Brazil (Vice Chair)

Martin Gaedke, University of Karlsruhe, Germany (Deputy Vice Chair)

Toni Alatalo, University of Oulu, Finland

Greg Badros, University of Washington, USA

Luciano Baresi, Politecnico di Milano, Italy

Mark Bernstein, Eastgate Systems, USA

Michael Bieber, New Jersey Institute of Technology, USA

Leslie Carr, University of Southampton, UK

Paul Dantzig, IBM Research, USA

Yogesh Deshpande, University of Western Sydney, Australia

Reiner Dumke, University of Magdeburg, Germany

Johann Eder, Universitit Klagenfurt, Austria

Piero Fraternali, Politecnico di Milano, Italy

Daniel German, University of Victoria, Canada

#### Web Engineering (continued):

Angela Goh Eck Soong, Nanyang Technological University, Singapore

Maria da Graca Pimentel, USP Sao Carlos, Brazil

Kaj Grønbæk, University of Aarhus, Denmark

Nuno Guimaraes, University of Lisbon, Portugal

Geert-Jan Houben, Technische Universiteit Eindhoven, The Netherlands

Nora Koch, Ludwig-Maximilians-Universität München, Germany

David Lowe, University of Technology Sydney, Australia

San Murugesan, Southern Cross University, Australia

Bebo White, Stanford Linear Accelerator Center, USA

Carolyn Watters, Dalhousie University, Canada

Cathy Marshall, Microsoft Research, USA

Emilia Mendes, University of Auckland, New Zealand

Jocelyne Nanard, University of Montpellier, France

Moira C. Norrie, ETH Zurich, Switzerland

Harri Oinas-Kukkonen, University of Oulu, Finland

Luis Olsina, UNLPam, Argentina

Oscar Pastor, Valencia University of Technology, Spain

Simos Retalis, University of Crete, Cyprus

Werner Retschitzegger, University of Linz, Austria

Gustavo Rossi, Universidad Nacional La Plata, Argentina

Jochen Schiller, Freie Universität Berlin, Germany

Leon Sklar, Rutgers University, USA

Olga De Troyer, Vrije Universiteit Brussel, Belgium

Fabio Vitali, University of Bologna, Italy

Jim Whitehead, University of California Santa Cruz, USA

Volker Turau, Technical University Hamburg-Harburg, Germany

Klaus Turowski, University of Augsburg, Germany

Li Xiaoming, Peking University, China

### Additional Reviewers:

Martin Bernauer, Vienna University of Technology, Austria

Cristina Cachero, Universidad de Alicante, Spain

Marco A. Casanova, Dept. of Informatics, PUC-Rio, Brazil

Sven Castelyn, Vrije Universiteit Brussel, Belgium

Irene Garrigós, Universidad de Alicante, Spain

Gerhard Kramler, Vienna University of Technology, Austria

H. Van Dyke Parunak, Altarum Institute, USA

Axel Rauschmeier, Ludwig-Maximilians-Universität München, Germany

Siegfried Reich, Salzburg Research, Austria

### Web of Communities:

David De Roure, University of Southampton, UK (Co-Chair)

Liddy Nevile, La Trobe University, Australia (Co-Chair)

Stephen Stead, PavePrime Ltd, UK

William Cartwright, RMIT University, Australia

Suzanne Currie, Navman, New Zealand

Nicola Morelli, Aalborg University, Denmark

David Singer, IBM Research, USA

Kathi Martin, Drexel University, USA

Jutta Treviranus, Adaptive Technology Research Center, Canada

Charles McCathieNevile, Fundación Sidar, Spain

Kim Machan, MAAP, Australia,

Stuart Weibel, OCLC Research, USA

Web Services: Francisco Curbera, IBM Research, USA (Chair)

Mike Papazoglou, Tilburg University, Netherlands (Deputy Chair)

Maria Orlowska, DSTC/Univ. of Queensland, Australia

Barbara Pernici, *Politecnico di Milano, Italy* Giacomo Piccinelli *University College London, UK* Jian Yang, *Univ. of Tilburg, The Netherlands* 

Thomas Risse, Fraunhofer, IPSI, Germany

Maarten W.A. Steen, *Telematica Instituut, The Netherlands* Boualem Benatallah, *Univ. of New South Wales, Australia* 

Steve Vinoski, *IONA, USA* Frank Leymann, *IBM, Germany* 

Amit Sheth, University of Georgia, USA

Schahram Dustdar, Vienna University of Technology, Austria

### **Additional Reviewers:**

Stamatis Karvounarakis, ICS-FORTH, Greece Kiriakos Kritikos, ICS-FORTH, Greece Abhijit Patil, University of Georgia, USA Pierluigi Plebani, Politecnico di Milano, Italy Kaarthik Sivashanmugam, Semagix Inc., USA Nikos Tsatsakis, ICS-FORTH, Greece Kunal Verma, University of Georgia, USA

Panels: Lloyd Rutledge, CWI Amsterdam, the Netherlands (Chair)

Mary Ellen Zurko, *IBM, USA (Deputy Chair)* Steven Pemberton, *W3C, The Netherlands* Patrick Schmitz, *Ludicrum Enterprises, USA* 

Harald Weinreich, University of Hamburg, Germany

Ronny Lempel, IBM Research, Israel

Tutorials and Workshops: Arun Iyengar, IBM Research, USA (Co-Chair)

Bebo White, Stanford Linear Accelerator Center, USA (Co-Chair) Yih-Farn Robin Chen, AT&T Labs—Research, USA (Deputy Chair)

#### **Additional Reviewers:**

Peter Patel-Schneider, Bell Labs, USA