

Preface

The 2001 International Conference on Case-Based Reasoning (ICCBR 2001, www.iccbr.org/iccbr01), the fourth in the biennial ICCBR series (1995 in Sesimbra, Portugal; 1997 in Providence, Rhode Island (USA); 1999 in Seon, Germany), was held during 30 July – 2 August 2001 in Vancouver, Canada. ICCBR is the premier international forum for researchers and practitioners of case-based reasoning (CBR). The objectives of this meeting were to nurture significant, relevant advances made in this field (both in research and application), communicate them among all attendees, inspire future advances, and continue to support the vision that CBR is a valuable process in many research disciplines, both computational and otherwise.

ICCBR 2001 was the first ICCBR meeting held on the Pacific coast, and we used the setting of beautiful Vancouver as an opportunity to enhance participation from the Pacific Rim communities, which contributed 28% of the submissions. During this meeting, we were fortunate to host invited talks by Ralph Bergmann, Ken Forbus, Jaiwei Han, Ramon López de Mántaras, and Manuela Veloso. Their contributions ensured a stimulating meeting; we thank them all.

This conference continues the tradition that ICCBR has established of attracting high-quality research and applications papers from around the world. Among the 81 (24 application + 57 research) submissions, 23 were selected for (9 long and 14 short) oral presentation and an additional 27 for poster presentation. This volume contains the papers for all 50 presentations. Also included are papers from some of the invited speakers and an invited paper by Petra Pernert on image interpretation, a topic on which we wish to encourage additional community participation.

ICCBR 2001's first day consisted of the *2001 Innovative Customer-Centered Applications Workshop* (ICCA 2001). This workshop, which was expertly co-chaired by Mehmet Göker (Americas), Hideo Shimazu (Asia & Australia), and Ralph Traphöner (Europe and Africa), focused on reports concerning mature applications and technology innovations of particular industrial interest.

The second day's events included five workshops focusing on the following research interests: Authoring Support Tools, Electronic Commerce, Creative Systems, Process-Oriented Knowledge Management, and Soft Computing. We are grateful to the Workshop Program Co-chairs, Christiane Gresse von Wangenheim and Rosina Weber, for their efforts in coordinating these workshops, along with the individual workshop chairs and participants. Materials from ICCA 2001 and the workshops were published separately and can be obtained from the ICCBR 2001 WWW site.

The Conference Chair for ICCBR 2001 was Qiang Yang of Simon Fraser University, while the Program Co-chairs were David W. Aha (U.S. Naval Research Laboratory) and Ian Watson (University of Auckland). The chairs would like to thank the program committee and the additional reviewers for their thoughtful and rigorous reviewing during the paper selection process. We also gratefully acknowledge the generous support of ICCBR 2001's sponsors, and Simon Fraser University for providing the venue. Many thanks to Penny Southby and her staff at the Simon Fraser University Conference Services for their tremendous assistance with local arrangements. Finally, thanks to Vincent Chung of the University of Auckland for his assistance with the conference WWW site.

May 2001

David W. Aha
Ian Watson

Program Chairs

David W. Aha, Naval Research Laboratory, Washington DC, USA
Ian Watson, University of Auckland, New Zealand

Conference Chair

Qiang Yang, Simon Fraser University, Vancouver, Canada

Industrial Chairs

Mehmet Göker, Kaidara International, Palo Alto, USA
Hideo Shimazu, NEC Corporation, Ikoma, Japan
Ralph Traphöener, Empolis, Kaiserslautern, Germany

Workshop Chairs

Christiane Gresse von Wangenheim, Uni. do Vale do Itajaí, Brazil
Rosina Weber, University of Wyoming, USA

Program Committee

Agnar Aamodt	Norwegian Uni. of Science and Tech.
Robert Aarts	Nokia Telecommunications, Finland
Klaus-Dieter Althoff	Fraunhofer IESE, Germany
Kevin Ashley	University of Pittsburgh, USA
Paolo Avesani	IRST Povo, Italy
Brigitte Bartsch-Spörl	BSR Consulting, Germany
Carlos Bento	University of Coimbra, Portugal
Ralph Bergmann	University of Kaiserslautern, Germany
Enrico Blanzieri	Turin University, Italy
L. Karl Branting	University of Wyoming, USA
Derek Bridge	University College, Cork, Ireland
Michael Brown	SemanticEdge, Berlin, Germany
Robin Burke	California State University, Fullerton, USA
Hans-Dieter Burkhard	Humboldt University Berlin, Germany
Bill Cheatham	General Electric Co. NY, USA
Michael Cox	Wright State University, Dayton, USA
Susan Crow	Robert Gordon University, Aberdeen, Scotland
Pádraig Cunningham	Trinity College, Dublin, Ireland
Walter Daelemans	CNTS, Belgium
Boi Faltings	EPFL Lausanne, Switzerland
Ashok Goel	Georgia Institute of Technology, USA
Andrew Golding	Lycos Inc, USA
C. Gresse von Wangenheim	Uni. do Vale do Itajaí, Brazil

Alec Holt	University of Otago, New Zealand
Igor Jurisica	Ontario Cancer Institute, Canada
Mark Keane	University College Dublin, Ireland
Janet Kolodner	Georgia Institute of Technology, USA
David Leake	Indiana University, USA
Brian Lees	University of Paisley, Scotland
Michel Manago	Kaidara International, Paris, France
Ramon López de Mántaras	IIIA-CSIC, Spain
Cindy Marling	Ohio University, USA
Bruce McLaren	OpenWebs Corp. Pennsylvania, USA
David McSherry	University of Ulster, Northern Ireland
Erica Melis	University of the Saarland, Germany
Alain Mille	Claude Bernard University, France
Héctor Muñoz-Avila	University of Maryland, USA
Petri Myllymaki	University of Helsinki, Finland
Bart Netten	TNO-TPD, The Netherlands
Petra Perner	ICVACS, Germany
Enric Plaza	IIIA-CSIC, Spain
Luigi Portinale	University of Eastern Piedmont, Italy
Lisa S. Purvis	Xerox Corporation, NY, USA
Francesco Ricci	IRST Povo, Italy
Michael M. Richter	University of Kaiserslautern, Germany
Edwina Rissland	University of Massachusetts, USA
Rainer Schmidt	University of Rostock, Germany
Barry Smyth	University College Dublin, Ireland
Einoshin Suzuki	Yokohama National University, Japan
Rosina Weber	University of Wyoming, USA
David C. Wilson	University College Dublin, Ireland

Additional Reviewers

Connor Hayes	Pietro Torasso
Markus Nick	Ivo Vollrath
Sascha Schmitt	Gabriele Zenobi
Armin Stahl	

Conference Support

ICCBR 2001 was supported by the American Association for Artificial Intelligence (AAAI), AI-CBR, ChangingWorlds, eGain, Empolis, the European Coordinating Committee for Artificial Intelligence (ECAI), Kaidara International, the INRECA Center, the Haley Enterprise, the Machine Learning Network, the Naval Research Laboratory, Simon Fraser University, Stottler Henke Associates Inc. and the University of Auckland.