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Preface

The International Conference on Case-Based Reasoning (ICCBR) is the preeminent international meeting on case-based reasoning (CBR). ICCBR 2005 (`http://www.iccbr.org/iccbr05/`) was the sixth in this series of biennial international conferences highlighting the most significant contributions to the field of CBR. The conference took place during August 23–26, 2005 at the downtown campus of DePaul University, in the heart of Chicago's downtown "Loop." Previous ICCBR conferences were held in Trondheim, Norway (2003), Vancouver, Canada (2001), Seeon, Germany (1999), Providence, Rhode Island, USA (1997), and Sesimbra, Portugal (1995).

Day 1 of ICCBR 2005 was Industry Day, which provided real-world experiences utilizing CBR in fielded applications. Day 2 featured various workshops on CBR in the health sciences, textual case-based reasoning, computer gaming and simulation environments, and similarities – Processes – Workflows. Days 3 and 4 comprised presentations and posters on theoretical and applied CBR research, as well as invited talks from three distinguished scholars: Derek Bridge, University College Cork, Craig Knoblock, University of Southern California, and Colleen Seifert, University of Michigan.

The presentations and posters covered a wide range of CBR topics, including adaptation, applications, case base maintenance, computer games, creative reasoning, knowledge representation, interactive systems, knowledge management, knowledge acquisition, multiagent collaborative systems, similarity, tutoring systems, bioinformatics, and textual CBR.

This volume comprises papers for all of the presentations and posters. These 45 papers were chosen after a highly selective process. Of a total of 74 submissions, the Program Committee selected 19 papers for oral presentation and 26 papers for poster presentation. Each submission was identified as being in one of three categories and judged using the following criteria: 1. Theoretical/methodological research paper (scientific significance; originality; technical quality; and clarity). 2. Applied research paper (significance for scientific research or innovative commercial deployment; originality; technical quality; and clarity). 3. Deployed application paper (demonstrated practical, social, environmental or economic significance; originality; treatment of issues of engineering, management and user acceptance; and clarity).

Many people participated in making ICCBR 2005 a success. Robin Burke, DePaul University, served as Local Chair, with Héctor Muñoz-Avila, Lehigh University, and Francesco Ricci, ITC-irst, as Program Co-chairs. We would especially like to thank Stefanie Brüninghaus, University of Pittsburgh, for serving as Workshop Coordinator, and Mehmet H. Göker, PricewaterhouseCoopers, and Bill Cheetham, GE Research, for chairing Industry Day. We thank the Program Committee and the additional reviewers for their thoughtful and timely

participation in the paper selection process. Finally, we gratefully acknowledge the generous support of the sponsors of ICCBR 2005 and of Springer for its continuing support in publishing the proceedings of ICCBR.

May 2005

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