

Preface

This volume comprises the papers presented at ICCBR 2015, the 23rd International Conference on Case-Based Reasoning (<http://www.iccbr.org/iccbr15>), which took place at the Forschungskolleg Humanwissenschaften of Goethe University Frankfurt in Bad Homburg, Germany, during September 28–30, 2015. There were 37 submissions from 15 countries spanning North and South America, Europe, and Asia. Each one was reviewed by three Program Committee members. The committee accepted 16 papers for oral presentation and 10 papers for poster presentation at the conference.

The International Conference on Case-Based Reasoning is the pre-eminent international meeting on case-based reasoning (CBR). Previous ICCBR conferences have been held in Sesimbra, Portugal (1995), Providence, USA (1997), Seon Monastery, Germany (1999), Vancouver, Canada (2001), Trondheim, Norway (2003), Chicago, USA (2005), Belfast, UK (2007), Seattle, USA (2009), Alessandria, Italy (2010), London, UK (2011), Lyon, France (2012), Saratoga Springs, USA (2013) and most recently in Cork, Ireland (2014).

The first day of ICCBR featured topical workshops on current aspects of CBR including case-based agents, e-CBR: building cyberinfrastructure for the CBR community, experience and creativity, CBR in the health sciences, and computer cooking. The Doctoral Consortium involved presentations by 12 graduate students in collaboration with their respective senior CBR research mentors. The first day also hosted the Computer Cooking Contest, the aim of which is to promote the use of AI technologies such as case-based reasoning, information extraction, information retrieval, and semantic technologies.

The second and third day consisted of scientific paper presentations on theoretical and applied CBR research as well as invited talks from two distinguished scholars: Qiang Yang, the head of the Computer Science and Engineering (CSE) department at Hong Kong University of Science and Technology (HKUST), where he is a New Bright Endowed Chair Professor of Engineering, and Michael M. Richter, Professor of Computer Science at the University of Kaiserslautern, Germany, until 2003 and presently Adjunct Professor at University of Calgary, Canada. Qiang Yang gave a keynote address on advances in transfer learning where target problem domains are complex and have fewer data to work with than a source domain. The keynote talk of Michael M. Richter was devoted to case-based reasoning and stochastic processes. The presentations and posters covered a wide range of CBR topics of interest both to researchers and practitioners including advanced retrieval, plans, processes, scalability, adaptability, maintenance, recommender systems, and robotics.

Many people helped make ICCBR 2015 a success. Eric Kübler and Jenny Quasten, Goethe University Frankfurt am Main, Germany, served as local organizers with Eyke Hüllermeier, University of Paderborn, and Mirjam Minor, Goethe University Frankfurt am Main, Germany, as program co-chairs. We would like to thank Joseph Kendall-Morwick, Capital University, USA, who acted as a workshop chair. Our

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Eyke Hüllermeier
Mirjam Minor

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Hüllermeier, E.; Minor, M. (Eds.)

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