

# Preface

This volume contains the papers presented at the 25th International Conference on Case-Based Reasoning (ICCBR), held during June 26–28, 2017, in Trondheim, Norway. ICCBR is the premier annual meeting of the CBR research community. The theme of ICCBR 2017, “Analogy for Reuse,” was highlighted in several events.

Prior events related to ICCBR also include the European Workshops and Conferences on CBR, which we also list here for completeness. These include: Kaiserslautern, Germany (1993); Chantilly, France (1994); Sesimbra, Portugal (1995); Lausanne, Switzerland (1996); Providence, USA (1997); Dublin, Ireland (1998); Seon Monastery, Germany (1999); Trento, Italy (2000); Vancouver, Canada (2001); Aberdeen, UK (2002); Trondheim, Norway (2003); Madrid, Spain (2004); Chicago, USA (2005); Fethiye, Turkey (2006); Belfast, UK (2007); Trier, Germany (2008); Seattle, USA (2009); Alessandria, Italy (2010); Greenwich, UK (2011); Lyon, France (2012); Saratoga Springs, USA (2013); Cork, Ireland (2014); Frankfurt, Germany (2015); and Atlanta, Georgia (2016).

Each day of the conference began with an outstanding keynote presentation. Henri Prade described recent advances on analogical reasoning, Agnar Aamodt and Enric Plaza gave a joint presentation on the past, present, and future of CBR along with the history of artificial intelligence, and Mary Lou Maher talked about models of novelty and surprise in the context of their integration with CBR and recommender systems to encourage user curiosity. These proceedings contain an abstract of each of these presentations and an extended paper for two of them.

In addition to the first keynote talk, the conference’s first day included workshops, a doctoral consortium, the Computer Cooking Contest (CCC), and ICCBR’s first video competition. The themes of the three workshops were “CBR and Deep Learning” (the first of its kind), “Computational Analogy” and “Process-Oriented CBR.” We thank the leaders of these workshops for their devotion to pursuing and encouraging further contributions to these topics.

During the following two days of the conference, 27 papers were presented as plenary oral or poster presentations; they were selected among 43 submissions. These papers, which are included in the proceedings, address many themes related to the theory and application of case-based reasoning. The authors of these papers represent 12 countries in Asia, Australasia, Europe, and North America.

It is our great pleasure to acknowledge the help of many people for their help in organizing this conference. First, Odd Erik Gunderson did a wonderful job bringing this conference to life and also managed the conference budget. Kerstin Bach performed the difficult tasks of publicity chair and sponsorship chair; we are thankful for what she has done, which included the development and maintenance of the conference website. Anders Kofod-Peterson and Antonio A. Sánchez Ruiz Granados were in charge of the workshops, from the call for workshop proposals to their organization at the conference. Stefania Montani and Jonathan Rubin organized the doctoral

consortium, an event that is critical for passing the relay from one generation of researchers to the next. The CCC was organized by Nadia Najjar and David Wilson, following a tradition in this conference series since 2008. Amélie Cordier and Michael Floyd organized the Video Competition, which we hope is the first of many!

We are also grateful to the members of the Advisory Committee, who provided invaluable guidance when called upon, and to the members of the Program Committee (and additional reviewers), who thoughtfully assessed the submissions and did an excellent job in providing constructive feedback to the authors. Thanks also to the local support group at NTNU, led by Odd Erik Gundersen, for their help throughout the conference.

We also wish to thank Alexandra Coman for her great help during the submission phase with EasyChair and during the editing process.

We are very grateful for the support of our sponsors, including NTNU's Department of Computer and Information Science, the Research Council of Norway, and the new Telenor-NTNU AI Laboratory.

Last, but not least, we would like to thank all the authors who submitted papers to the conference and contributed to its high quality, as well as the conference attendees, who made this such an enjoyable event for everyone involved. Finally, it was a pleasure to return to Trondheim in 2017, the first example of location reuse in ICCBR's storied history.

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