

■ Preface

This report contains the proceedings of the *15th International Workshop on Termination (WST 2016)*, which was held in Obergurgl during September 5–7, 2016 as part of CLA (Computational Logic in the Alps) 2016. Previous termination workshops were organized in St. Andrews (1993), La Bresse (1995), Ede (1997), Dagstuhl (1999), Utrecht (2001), Valencia (2003), Aachen (2004), Seattke (2006), Paris (2007), Leipzig (2009), Edinburgh (2010), Obergurgl (2012), Bertinoro (2013), and Vienna (2014). The termination workshops traditionally bring together, in an informal setting, researchers interested in all aspects of termination, whether this interest be practical or theoretical, primary or derived. The workshop also provides a ground for cross-fertilization of ideas from term rewriting and from the different programming language communities. The friendly atmosphere enables fruitful exchanges leading to joint research and subsequent publications.

WST 2016 received 14 submissions. After light reviewing and careful deliberations the program committee decided to accept all submissions. One submission was withdrawn after acceptance. The remaining 13 papers are contained in these proceedings.

The program included an invited presentation by *Reiner Hähnle* on *Refined Resource Analysis Based on Cost Relations*. The corresponding paper is included in these proceedings. Furthermore, these proceedings contain short descriptions of several tools that participated in the 2016 Termination and Complexity Competition. This competition ran live during the workshop and the results are available at http://www.termination-portal.org/wiki/Termination_and_Complexity_Competition_2016.

Several persons helped to make WST 2016 a success. We are grateful to the members of the program committee and to Martina Ingenhaeff and Benjamin Winder of the organization committee of CLA 2016 for their work. A special thanks to Johannes Waldmann who made the live run of the competition possible.

Innsbruck, September 2016

Aart Middeldorp and René Thiemann