

16th International Workshop on Termination

WST 2018, July 18–19, 2018, Oxford, UK

Edited by

Salvador Lucas

■ Presentation

This report contains information about the proceedings of the *16th International Workshop on Termination (WST 2018)*, which was held in Oxford during July 18–19, 2018. The complete version of the proceedings can be downloaded from the WST 2018 web site:

<http://wst2018.webs.upv.es/>

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.

Previous termination workshops were organized in St. Andrews (1993), La Bresse (1995), Ede (1997), Dagstuhl (1999), Utrecht (2001), Valencia (2003), Aachen (2004), Seattle (2006), Paris (2007), Leipzig (2009), Edinburgh (2010), Obergurgl (2012), Bertinoro (2013), Vienna (2014), and Obergurgl (2016). This time, as in previous editions of the Federated Logic Conference (FLoC) since 2006, WST 2018 is part of FLoC 2018. In particular, WST was affiliated to several FLoC conferences:

- 9th International Joint Conference on Automated Reasoning (IJCAR), as *primary hosting conference*,
- 30th International Conference on Computer Aided Verification (CAV),
- 23rd International Symposium on Formal Methods (FM),
- 3rd International Conference on Formal Structures for Computation and Deduction (FSCD),
- 34th International Conference on Logic Programming (ICLP),
- 33rd Annual ACM/IEEE Symposium on Logic in Computer Science (LICS), and
- 21st International Conference on Theory and Applications of Satisfiability Testing (SAT).

WST 2018 received 14 submissions. After light reviewing and careful deliberations the program committee decided to accept all submissions. The 14 contributions are contained in the proceedings.

The program included an invited talk by *James Worrell* on *Termination Checking and Invariant Synthesis for Affine Programs* and another invited talk by *Akihisa Yamada* entitled *Towards a unified method for termination*. The corresponding papers are also included in the proceedings. Furthermore, the proceedings also contain information about the 2018 Termination and Complexity Competition (TERCOMP). This competition ran live during FLoC 2018 as part of the FLoC Olympic Games.

Several persons helped to make WST 2018 a success. I'm specially grateful to the members of the program committee, the external reviewers, the members of the TERMCOMP Steering Committee, and also to the organizing committee of FLoC 2018 for their support.

Valencia, July 2018

Salvador Lucas

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Towards a unified method for termination

Akihisa Yamada

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