



TERMGRAPH 2014

8th International Workshop on
Computing with Terms and Graphs

(affiliated with RTA-TLCA as part of FLoC)

July 13, 2014, Vienna

<http://cl-informatik.uibk.ac.at/events/termgraph-2014/>



Research in term and graph rewriting ranges from theoretical questions to practical issues. Computing with graphs handles the sharing of common subexpressions in a natural and seamless way, and improves the efficiency of computations in space and time. Sharing is ubiquitous in several research areas, for instance: the modelling of first- and higher-order term rewriting by (acyclic or cyclic) graph rewriting, the modelling of biological or chemical abstract machines, the implementation techniques of programming languages: many implementations of functional, logic, object-oriented, concurrent and mobile calculi are based on term graphs. Term graphs are also used in automated theorem proving and symbolic computation systems working on shared structures. The aim of this workshop is to bring together researchers working in different domains on term and graph transformation and to foster their interaction, to provide a forum for presenting new ideas and work in progress, and to enable newcomers to learn about current activities in term graph rewriting.

Previous editions of the workshop took place in Barcelona (2002), Rome (2004), Vienna (2006), Braga (2007), York (2009), Saarbrücken (2011), and Rome (2013). This year TERMGRAPH is affiliated with the joint RTA and TLCA conference, which is part of FLoC, which in turn participates in the Vienna Summer of Logic 2014.

Program Committee

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Aart Middeldorp (co-chair)	Innsbruck
Pierre-Etienne Moreau	Nancy
Femke van Raamsdonk (co-chair)	Amsterdam

Invited Speakers

Ian Mackie	Palaiseau	(joint with DCM 2014)
Samuel Mimram	Saclay	(joint with IWC 2014)

Topics of Interest

include all aspects of term graphs and sharing of common subexpressions in rewriting, programming, automated reasoning and symbolic computation. This includes (but is not limited to):

- graph transformation
- graph-based implementations of lambda-calculus
- representation of concurrent systems
- models of computation
- graph-based languages
- semantics and implementation of programming languages
- compiler construction
- interaction nets and proof nets
- pattern recognition
- bioinformatics
- system descriptions

Important Dates

Submission deadline:	April 30, 2014
Notification:	May 16, 2014
Final version:	May 28, 2014
Workshop:	July 13, 2014

Submission and Publication

There are two categories of submissions:

1. Extended abstracts describing new results, work in progress, or problems.
2. Short versions of articles recently published or submitted elsewhere. Papers in this category are not considered for the post-workshop proceedings.

The page limit for submissions in both categories is 5 pages in EPTCS style, which can be downloaded from <http://style.eptcs.org/>. Submissions should be marked with the category (either 1 or 2) and submitted electronically in PDF via the EasyChair submission site at <http://www.easychair.org/conferences/?conf=termgraph2014>. Papers will be judged on relevance, originality, correctness, and usefulness.

The proceedings of TERMGRAPH 2014 will be included on the FLoC USB flash drive. Post-workshop proceedings of full versions of selected (category 1) contributions will be published as a volume of EPTCS.