

TAG+13

**The 13th International Workshop  
on Tree Adjoining Grammars  
and Related Formalisms**

**Proceedings**

September 4–6, 2017  
Umeå, Sweden

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ISBN 978-1-945626-98-2

## Introduction

It is our pleasure to introduce the proceedings of the 13th International Workshop on Tree Adjoining Grammars and Related Formalisms, which will be held at Umeå University from September 4–6, 2017.

This year’s meeting is special in at least two ways: it is the first workshop in the series to be held in Sweden, and the first one to be co-located with FSMNLP, the International Conference on Finite State Methods and Natural Language Processing. This co-location, which is manifested through joint tutorials, invited talks, and social events, provides an exciting opportunity for scientific exchange between the two research communities. The TAG+-specific program features 14 papers, which were selected from a pool of 21 submissions after a thorough peer review process.

We are deeply grateful to everybody who has been involved in the organization of this meeting: to our colleagues on the program committee for the time and effort that they put into the reviewing of the submissions; to our tutorial speakers Johanna Björklund, Laura Kallmeyer, Rainer Osswald, and Sylvain Pogodalla; to our invited speakers Ann Copestake and Gregory Kobele; to Min-Yen Kan for his help with the publishing of these proceedings in the ACL Anthology – and most of all to our local host, Frank Drewes, for welcoming us to Umeå and for the tremendous energy and work that he put into this project.

And now, we wish you a fruitful meeting!

Marco Kuhlmann and Tatjana Scheffler  
TAG+13 Program Chairs



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Marco Kuhlmann (Linköping University, Sweden)  
Tatjana Scheffler (Potsdam University, Germany)

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Dennis Ryan Storoshenko (University of Calgary, Canada)  
Heiko Vogler (TU Dresden, Germany)  
Luke Zettlemoyer (University of Washington, USA)

**Invited Speakers:**

Ann Copestake (University of Cambridge, UK)  
Gregory Kobele (Leipzig University, Germany)

**Tutorial Speakers:**

Johanna Björklund (Umeå University, Sweden)  
Laura Kallmeyer (Heinrich Heine University Düsseldorf, Germany)  
Rainer Osswald (Heinrich Heine University Düsseldorf, Germany)  
Sylvain Pogodalla (LORIA/INRIA Lorraine, France)



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# Program

## Monday, September 4

08:30–09:00 Registration and Opening

### Tutorials

09:00–10:30 *Minimization Techniques for Automata and Grammars*  
Johanna Björklund

10:30–11:00 Coffee Break

11:00–12:30 *Abstract Categorical Grammars as a Model of the Syntax–Semantics Interface for TAG*  
Sylvain Pogodalla

12:30–13:30 Lunch Break

13:30–15:00 *Syntax-Driven Semantic Frame Composition in Lexicalized Tree Adjoining Grammars*  
Laura Kallmeyer and Rainer Osswald

15:00–15:30 Coffee Break

### Paper Session 1

15:30–16:00 *A Feature Structure Algebra for FTAG*  
Alexander Koller

16:00–16:30 *Parsing Minimalist Languages with Interpreted Regular Tree Grammars*  
Meaghan Fowlie and Alexander Koller

## Tuesday, September 5

### Invited Talk

09:00–10:00 *Higher Order Structures in Minimalist Derivations*  
Gregory Kobele

10:00–10:30 Coffee Break

### Paper Session 2

10:30–11:00 *Depictives in English: An LTAG Approach*  
Benjamin Burkhardt, Timm Lichte and Laura Kallmeyer

11:00–11:30 *Reflexives and Reciprocals in Synchronous Tree Adjoining Grammar*  
Cristina Aggazzotti and Stuart M. Shieber

11:30–12:00 *Coordination in TAG without the Conjoin Operation*  
Chung-hye Han and Anoop Sarkar

12:00–13:00 Lunch Break

### Paper Session 3

13:00–13:30 *Scope, Time, and Predicate Restriction in Blackfoot using MC-STAG*  
Dennis Ryan Storoshenko

13:30–14:00 *Combining Predicate-Argument Structure and Operator Projection: Clause Structure in Role and Reference Grammar*  
Laura Kallmeyer and Rainer Osswald

14:00–14:30 *Parsing with Dynamic Continuized CCG*  
Michael White, Simon Charlow, Jordan Needle and Dylan Bumford

14:30–15:00 Coffee Break

### Paper Session 4

15:00–15:30 *Multiword Expression-Aware A\* TAG Parsing Revisited*  
Jakub Waszczuk, Agata Savary and Yannick Parmentier

15:30–16:00 *Single-Rooted DAGs in Regular DAG Languages: Parikh Image and Path Languages*  
Martin Berglund, Henrik Björklund and Frank Drewes

16:00–16:30 *Contextual Hyperedge Replacement Grammars for Abstract Meaning Representations*  
Frank Drewes and Anna Jonsson

**Wednesday, September 6**

**Invited Talk**

09:00–10:00 *Dependency Semantics and Composition*  
Ann Copestake

10:00–10:30 Coffee Break

**Paper Session 5**

10:30–11:00 *Transforming Dependency Structures to LTAG Derivation Trees*  
Caio Corro and Joseph Le Roux

11:00–11:30 *Linguistically Rich Vector Representations of Supertags for TAG Parsing*  
Dan Friedman, Jungo Kasai, R. Thomas McCoy, Robert Frank, Forrest Davis and Owen Rambow

11:30–12:00 *TAG Parser Evaluation using Textual Entailments*  
Pauli Xu, Robert Frank, Jungo Kasai and Owen Rambow

12:00–13:00 Closing and Lunch

