

LDTA'06

**Sixth Workshop
on Language Descriptions,
Tools, and Applications**

Vienna, Austria
April 1, 2006

Proceedings

Editors

John Boyland
Anthony Sloane

Program of LDTA'06

Session 1

- 09:00-10:00 *DSL Coordination: an Open Problem in Model Driven Engineering*
Jean Bézivin (Invited Talk)
- 10:00-10:30 *Characterizing the Uses of a Software Modeling Tool*
Xiaoming Li, Daryl Shannon, Jabari Walker, Safraz Kurshid, and Darko Marinov

Coffee Break: 10:30-11:00

Session 2

- 11:00-11:30 *A Prolog Framework for the Rapid Prototyping of Language Processors with Attribute Grammars*
José Luis Sierra and Alfredo Fernández-Valmayor
- 11:30-12:00 *AspectLISA: an Aspect-Oriented Compiler Construction System Based on Attribute Grammars*
Damijan Rebernak, Marjan Mernik, Pedro Rangel Henriques and Maria João Varanda Pereira
- 12:00-12:30 *Tool Demonstration: The Language Evolver Lever*
Elmar Juergens and Markus Pizka

Lunch: 12:30-14:00

Session 3

- 14:00-14:30 *Combining Deep and Shallow Embeddings*
Joni Helin
- 14:30-15:00 *Incremental Confined Types Analysis*
Michael Eichberg, Sven Kloppenburg, Mira Mezini and Tobias Schuh
- 15:00-15:30 *Tool Demonstration: sbp: A Scannerless Boolean Parser*
Adam Megacz

Coffee Break: 15:30-16:00

Session 4

- 16:00-16:30 *A Domain-Specific Language for Generating Dataflow Analyzers*
Jia Zeng, Chuck Mitchell, and Stephen A. Edwards
- 16:30-17:00 *Automated Derivation of Translators From Annotated Grammars*
Diego Ordonez Camacho, Kim Mens, Mark van den Brand, Jurgen Vinju
- 17:00-17:30 *Discussion and Closing*

Foreword

The papers presented at the Sixth Workshop on Language Descriptions, Tools, and Applications (LDTA '06) are contained in this volume. These papers include both technical papers and tool demonstration papers. LDTA '06 was a satellite event of the European Joint Conferences on Theory and Practice of Software (ETAPS '06) and was held in Vienna, Austria, on April 1, 2006. Previous instances of this workshop have been held as satellite events of ETAPS in Edinburgh, UK in 2005, Barcelona, Spain in 2004, in Warsaw, Poland in 2003, in Grenoble, France in 2002, and in Genoa, Italy in 2001.

As in past instantiations, the aim of this one day workshop was to bring together researchers from academia and industry who have an interest in the field of formal language definitions and language technologies. A special emphasis is placed on the development of tools based on formal language definitions.

The program for LDTA '06 consists of 7 regular papers, 2 tool demonstrations, and an invited talk by Jean Bézivin. The regular papers and tool demonstrations were selected from 21 submissions. Each submitted paper was reviewed by at least three program committee members. The papers cover a range of topics including tools for transformation, program analysis, compilation, evolution and modeling.

We would like to thank the members of the program committee for the careful review of the submitted papers. We also thank the ETAPS organizing committee for handling the local organization of the workshop. We are again very pleased that this workshop is held in cooperation with ACM SIGPLAN and with the publication of these proceedings as a volume in the Electronic Notes in Theoretical Computer Science (ENTCS) by Elsevier. We are especially grateful to **actant** for their financial contributions for the workshop.

John Boyland
Anthony Sloane
Milwaukee (USA) and Sydney (Australia)
April, 2006

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