



# Seventh Workshop on Language Descriptions, Tools and Applications LDTA 2007



A satellite event of ETAPS 2007

Sunday, March 25, 2007 in Braga, Portugal

In cooperation with ACM SIGPLAN

<http://www.di.uminho.pt/ldta07>



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## Important Dates

- Submission: December 4, 2006 (title, abstract), December 11, 2006 (paper)
- Notification: January 16, 2007
- Final version: February 16, 2007

**Scope:** The aim of this one-day workshop is to bring together researchers from academia and industry interested in the field of formal language definitions and language technologies, with a special emphasis on tools developed for or with these language definitions. This active area of research involves the following basic technologies:

- Program analysis, transformation, and generation
- Formal analysis of language properties
- Automatic generation of language processing tools

For example, language definitions can be augmented in a manner so that not only compilers or interpreters can be automatically generated but also other tools such as syntax-directed editors, debuggers, partial evaluators, test generators, documentation generators. Although various specification formalisms like attribute grammars, action semantics, operational semantics, and algebraic approaches have been developed, they are not widely exploited in current practice.

It is the aim of the LDTA workshops to bridge this gap between theory and practice. Among others, the following application domains can benefit from advanced language technologies:

- Software component models and modeling languages
- Re-engineering and re-factoring
- Aspect-oriented programming
- Domain-specific languages
- XML processing
- Visualization and graph transformation
- Programming environments such as Eclipse, NetBeans and Visual Studio
- Modern runtime platforms including .Net, Rotor, Java Virtual Machine

The workshop welcomes contributions on all aspects of formal language definitions, with special emphasis on applications and tools developed for or with these language definitions. Experience papers describing novel or compelling uses of language definition-based methods in real world projects are particularly sought.

**Invited Speaker:** Uwe Aßmann, TU Dresden.

**Submission Procedure and Publication:** Three classes of papers are solicited: full-length (15 pages) research papers and experience reports and short (4 pages) tool-demo papers. Experience reports must describe the use of a language-based tool to solve a non-trivial applied problem with an emphasis on the advantages and disadvantages of the tool. Tool-demo papers should contain a brief description of the tool and include a section that clearly explains what will be demonstrated. Additional submission details, along with LaTeX style files, are available on the LDTA 2007 web page: <http://www.di.uminho.pt/ldta07>.

The final versions of accepted papers will be published in Electronic Notes in Theoretical Computer Science (ENTCS), Elsevier Science, and will be made available during the workshop. The authors of the best full-length papers will be invited to write a journal version of their paper which will be separately reviewed and, assuming acceptance, be published in journal form in a special issue devoted to LDTA 2007 of the journal Science of Computer Programming (Elsevier Science).