

Call for Papers

2nd International Workshop on Domain-Specific Program Development (DSPD)

In association with GPCE 2008 – October 22, Nashville, USA

<http://www.labri.fr/perso/reveille/DSPD/2008/>

Scope

Domain-specific knowledge is traditionally integrated in the software development process in an ad hoc and partial fashion, without much formal basis or tools. Nevertheless, the concept of domain expertise intervenes at all stages of the continuum of modeling, programming, and compiling. Putting domain expertise at the center of the software development process entails providing abstractions that are well adapted to expressing problems in the domain, providing verifications that capture essential domain properties, and providing implementation strategies that take domain requirements into account.

These issues have been considered in the fields of modeling, programming, and compiling, but in isolation. Indeed, the field of domain-specific modeling has had little influence on the design of domain-specific programming languages, and the design of domain-specific programming languages has been considered independently of implementation techniques. The purpose of this workshop is to bring together researchers in these fields to identify possible points of synergy, common problems and solutions, and visions for the future.

Topics

Suggested topics for papers and discussion include, but are not restricted to:

- Domain-specific languages and domain-specific modelling languages:
 - Design strategies
 - Implementation strategies
 - Strategies for optimization and verification
 - Experience reports
 - Relation to other language paradigms and modelling strategies
- The relationship between domain-specific languages and domain-specific modelling languages.
- Metrics to assess the benefits of a domain-specific approach.

Accepted papers will be published electronically on the workshop web page. However, the publication of a paper in the DSPD workshop proceedings is not intended to replace future conference publication.

Submission Guidelines

Authors are invited to submit full papers of up to 4-6 pages, or shorter position papers or experience reports (which, if accepted, may be allocated shorter presentation slots). Papers must not be previously published or already submitted elsewhere. Descriptions of work-in-progress and open questions are strongly encouraged. We suggest that position papers and experience reports contain a final section named Open Issues in which the authors identify a number of open questions (typically 3-5) related to their work that caused them special problems or that they think are relevant to the rest of the community.

Submitted papers should conform to the ACM SIGPLAN conference style, using 10pt font. Accepted papers will be distributed to the participants electronically prior to the workshop. More detailed information can be found at the DSPD home page: <http://www.labri.fr/perso/reveille/DSPD/2008/>

Program Committee

- Olivier Barais, France
- Krzysztof Czarnecki, Canada
- Robert Grimm, USA
- Julia Lawall, Denmark (co-chair)
- Laurent Réveillère, France (co-chair)
- Yannis Smaragdakis, USA
- Walid Taha, USA
- Eric Van Wyk, USA

Important dates

August 11, 2008: Submission deadline
September 4, 2008: Notification