

The Eighth International Workshop on Rule-Based Programming

Friday, June 29, 2007, Paris
Part of RDP'07

Scope

Rule-based programming provides a framework that facilitates viewing computation as a sequence of changes transforming a complex shared structure such as a term, graph, proof, or constraint store. In rule-based languages, a set of abstractions and primitive operations typically provide sophisticated mechanisms for recognizing and manipulating structures. In a classical setting, a rule-based program consists of a collection of (conditional) rewrite rules together with a partially-explicit specification of how the rule collection should be applied to a given structure.

Due to theoretical and technological advances, rule-based programming techniques are being incorporated into a wide range of research areas including: Generative Programming, Aspect-Oriented Programming, Software Maintenance, Reverse Engineering, Domain Specific Language Development, and Information Assurance (e.g., security, testing, etc.). Oftentimes, the ad hoc incorporation of rule-based techniques into a particular area or problem domain raises general issues that warrant further study. Related to this is a growing need to share foundational infrastructure (e.g., parsers, pretty printers, etc.) between rule-based systems. The goal of this workshop is to foster the exchange of ideas within the rule-based programming community.

Topics

We solicit original papers on all topics related to rule-based programming including:

- **Applications to Software**
 - Development
 - Evolution
 - Information Assurance
- **Systems**
 - Descriptions of rule-based systems
 - Descriptions of rule-based languages
- **Hybrid paradigms – Rule-based programming combined with:**
 - Functional programming
 - Logic programming
 - OO programming
 - Language extensions

- Language embeddings

- **Theory**

- Advances in the rewriting calculus
- Advances in rewriting logic

Submissions

Papers (of at most 15 pages) should be submitted electronically via the web-based submission site. Any problems with the submission procedure should be reported to one of the PC chairs: Joost Visser (joost.visser@di.uminho.pt) or Victor Winter (vwinter@mail.unomaha.edu).

Proceedings

Accepted papers will be published in the preliminary proceedings volume, which will be available during the workshop. We expect that the final proceedings will be published in Electronic Notes in Theoretical Computer Science (ENTCS), Elsevier.

Important Dates

Sunday 25 th March, 2007	Submission deadline
Sunday 6 th May, 2007	Acceptance notification
Sunday 20 th May, 2007	Final version deadline
Friday 29 th June, 2007	Workshop

Program Committee

Mark van den Brand	TU Eindhoven
Horatiu Cirstea	IUT Nancy Charlemagne
Steve Eker	SRI International
Maribel Fernandez	King's College London
Jeffrey G. Gray	University of Alabama at Birmingham
Berthold Hoffmann	University of Bremen
Günter Kiesel	University of Bonn
Ralf Lämmel	Microsoft
Pierre-Etienne Moreau	INRIA
Dan Resler	VCU
Eelco Visser	Delft University of Technology
Joost Visser (co-chair)	Universidade do Minho in Braga
Victor Winter (co-chair)	University of Nebraska at Omaha