

# RULE'08

## The Ninth International Workshop on Rule-Based Programming

Friday, July 18 2008, Hagenberg Castle, Austria

A satellite event of RTA'08

### Important Dates:

<i>Submission:</i>	<b>April 14, 2008</b>
<i>Notification:</i>	<b>May 26, 2008</b>
<i>Final Versions:</i>	<b>June 9, 2008</b>
<i>Workshop:</i>	<b>July 18, 2008</b>

### Submission and Publication

Submissions to the workshop will be judged on the basis of originality, relevance, technical soundness and presentation quality. Papers must be written in English and not exceed 15 pages in ENTCS format. Papers should be submitted electronically via the web-based submission site. If you experience any problems with the submission procedure please contact one of the PC chairs: Günter Kniesel or Jorge Sousa Pinto.

Publication of the workshop proceedings by Elsevier in Electronic Notes in Theoretical Computer Science (ENTCS) is anticipated.

### Program Committee:

Mark van den Brand, TU Eindhoven  
Horatiu Cirstea, IUT Nancy Charlemagne  
Steven Eker, SRI International  
Maribel Fernandez, King's College London  
Jeffrey Gray, U. of Alabama at Birmingham  
Günter Kniesel (co-chair), Univ. of Bonn  
Ralf Lämmel, Univ. of Koblenz-Landau  
Salvador Lucas, U. Politécnica de Valência  
Ugo Montanari, Univ. di Pisa  
Jorge Sousa Pinto (co-chair), Univ. Minho  
Joost Visser, Software Improvement Group  
Jan Wielemaker, Univ. of Amsterdam  
Victor Winter, Univ. of Nebraska at Omaha

### Contacts:

gk@cs.uni-bonn.de  
jsp@di.uminho.pt  
sewiki.iai.uni-bonn.de/rule08/

### Scope

The fundamental concepts of rule-based programming are present in many areas of computer science, from theory to practical implementations. In programming languages, term rewriting is used in semantics as well as in implementations that use bottom-up rewriting for code generation. Rules are also used to perform computations in various systems; to describe logical inference in theorem provers; to specify and implement constraint-based algorithms and applications; and to describe and implement program transformations. Rule-based programming provides a common framework for viewing computation as a sequence of transformations on some shared structure such as a term, graph, proof, or constraint store. Rule selection and application is typically governed by a rich set of sophisticated mechanisms for recognizing and manipulating structures.

After the development of the principles of rewriting logic and of the rewriting calculus in the nineties, languages and systems such as ASF+SDF, BURG, CHRS, Claire, ELAN, Maude, and Stratego contributed to demonstrate the importance of rule-based programming. The area has since been experiencing a period of growth with the emergence of new concepts, systems, and applications domains, such as Domain Specific Languages, Generative and Aspect-Oriented Programming, and Software Engineering activities like maintenance, reverse engineering, and testing.

The goal of this workshop is to bring together researchers from the various communities working on rule-based programming to foster advances in the foundations and research on rule-based programming methods and systems; and to promote cross-fertilization between theory and practice, and the application of rule-based programming in various important domains.

### Topics

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

- Theory and Languages for rule-based programming:  
Advances in the rewriting calculus; Advances in rewriting logic;  
Complexity results; Static analysis; Semantics; Type Systems;  
Implementation techniques; Domain-specific Languages
- Applications:  
Software analysis and transformation; Software development and testing;  
Reengineering; Security
- Paradigm combinations:  
Rule-based programming combined with Functional, Logic,  
or Object-oriented programming; Language embedding and extensions
- Tool and System descriptions:  
Usability engineering for rule-based programming tools; Experience in building or  
using rule-based programming systems; Practical aspects of rule-based programming  
systems; Empirical evaluation of rule-based programming

RULE'08 is the ninth in a series of workshops. The first RULE workshop was held in Montréal in 2000, and subsequent editions took place in Firenze, Pittsburgh, Valência, Aachen, Nara, Seattle, and Paris.