

Table of Contents

Invited Talks

Combining Shostak Theories	1
<i>Natarajan Shankar, Harald Rueß</i>	
Multiset Rewriting and Security Protocol Analysis	19
<i>John C. Mitchell</i>	
Engineering of Logics for the Content-Based Representation of Information	23
<i>Franz Baader</i>	

Regular Papers, Application Papers

Axiomatic Rewriting Theory VI Residual Theory Revisited	24
<i>Paul-André Melliès</i>	
Static Analysis of Modularity of β -Reduction in the Hyperbalanced λ -Calculus	51
<i>Richard Kennaway, Zurab Khasidashvili, Adolfo Piperno</i>	
Exceptions in the Rewriting Calculus	66
<i>Germain Faure, Claude Kirchner</i>	
Deriving Focused Lattice Calculi	83
<i>Georg Struth</i>	
Layered Transducing Term Rewriting System and Its Recognizability Preserving Property	98
<i>Hiroyuki Seki, Toshinori Takai, Youhei Fujinaka, Yuichi Kaji</i>	
Decidability and Closure Properties of Equational Tree Languages	114
<i>Hitoshi Ohsaki, Toshinori Takai</i>	
Regular Sets of Descendants by Some Rewrite Strategies	129
<i>Pierre Réty, Julie Vuotto</i>	
Rewrite Games	144
<i>Johannes Waldmann</i>	
An Extensional Böhm Model	159
<i>Paula Severi, Fer-Jan de Vries</i>	

A Weak Calculus with Explicit Operators for Pattern Matching and Substitution	174
<i>Julien Forest</i>	
Tradeoffs in the Intensional Representation of Lambda Terms	192
<i>Chuck Liang, Gopalan Nadathur</i>	
Improving Symbolic Model Checking by Rewriting Temporal Logic Formulae	207
<i>David Déharbe, Anamaria Martins Moreira, Christophe Ringeissen</i>	
Conditions for Efficiency Improvement by Tree Transducer Composition . .	222
<i>Janis Voigtländer</i>	
Rewriting Strategies for Instruction Selection	237
<i>Martin Bravenboer, Eelco Visser</i>	
Probabilistic Rewrite Strategies. Applications to ELAN	252
<i>Olivier Bournez, Claude Kirchner</i>	
Loops of Superexponential Lengths in One-Rule String Rewriting	267
<i>Alfons Geser</i>	
Recursive Derivational Length Bounds for Confluent Term Rewrite Systems	281
<i>Elias Tahhan-Bittar</i>	
Termination of (Canonical) Context-Sensitive Rewriting	296
<i>Salvador Lucas</i>	
Atomic Set Constraints with Projection	311
<i>Witold Charatonik, Jean-Marc Talbot</i>	
Currying Second-Order Unification Problems	326
<i>Jordi Levy, Mateu Villaret</i>	
A Decidable Variant of Higher Order Matching	340
<i>Dan Dougherty, ToMasz Wierzbicki</i>	
Combining Decision Procedures for Positive Theories Sharing Constructors	352
<i>Franz Baader, Cesare Tinelli</i>	
System Descriptions	
JITty: A Rewriter with Strategy Annotations	367
<i>Jaco van de Pol</i>	

Autowrite: A Tool for Checking Properties of Term Rewriting Systems	371
<i>Irène Durand</i>	
TTSLI: An Implementation of Tree-Tuple Synchronized Languages	376
<i>Benoit Lecland, Pierre Réty</i>	
in ² : A Graphical Interpreter for Interaction Nets	380
<i>Sylvain Lippi</i>	
Author Index	387