

# Table of Contents

## Invited Talks

Computer Security from a Programming Language and Static Analysis Perspective .....	1
<i>Xavier Leroy (INRIA Rocquencourt and Trusted Logic S.A.)</i>	
What Makes a Cryptographic Protocol Secure? The Evolution of Requirements Specification in Formal Cryptographic Protocol Analysis.....	10
<i>Catherine Meadows (Center for High Assurance Computer Systems)</i>	

## Contributed Papers

A Tail-Recursive Semantics for Stack Inspections.....	22
<i>John Clements and Matthias Felleisen (Northeastern University)</i>	
Flexible Models for Dynamic Linking .....	38
<i>Sophia Drossopoulou (Imperial College), Giovanni Lagorio (University of Genova), and Susan Eisenbach (Imperial College)</i>	
Correction of Functional Logic Programs.....	54
<i>Maria Alpuente (DSIC, Univ. Polit�cnica de Valencia), Demis Ballis (Dipartimento di Matematica e Informatica, Universit� di Udine), Francisco J. Correa (DIS, Univ Eafit), and Moreno Falaschi (Dipartimento di Matematica e Informatica, Universit� di Udine)</i>	
Approximate Pruning in Tabled Logic Programming.....	69
<i>Lu�s F. Castro and David S. Warren (SUNY at Stony Brook)</i>	
Goal-Independent Suspension Analysis for Logic Programs with Dynamic Scheduling.....	84
<i>Samir Genaim (Ben-Gurion University of the Negev) and Andy King (University of Kent at Canterbury)</i>	
Security Properties: Two Agents Are Sufficient.....	99
<i>Hubert Comon-Lundh and V�ronique Cortier (LSV, ENS Cachan and CNRS)</i>	
A Simple Language for Real-Time Cryptographic Protocol Analysis.....	114
<i>Roberto Gorrieri , Enrico Locatelli (Universit� di Bologna), and Fabio Martinelli (IIT-CNR)</i>	

Rule Formats for Non Interference .....	129
<i>Simone Tini (Università dell'Insubria)</i>	
On the Secure Implementation of Security Protocols .....	144
<i>Pablo Giambiagi and Mads Dam (Swedish Institute of Computer Science)</i>	
Handling Encryption in an Analysis for Secure Information Flow .....	159
<i>Peeter Laud (Tartu University and Cybernetica AS)</i>	
Using Controller Synthesis to Build Property-Enforcing Layers .....	174
<i>Karine Altisen (VERIMAG/INPG), Aurélie Clodic (LAAS/CNRS), Florence Maraninchi (VERIMAG/INPG), and Eric Rutten (INRIA Rhône-Alpes)</i>	
Automatic Software Model Checking Using CLP .....	189
<i>Cormac Flanagan (Systems Research Center, Hewlett Packard Laboratories)</i>	
Verifying Temporal Heap Properties Specified via Evolution Logic .....	204
<i>Eran Yahav (Tel-Aviv University), Thomas Reps (University of Wisconsin), Mooly Sagiv (Tel-Aviv University), and Reinhard Wilhelm (Universität des Saarlandes)</i>	
Correctness of Data Representations Involving Heap Data Structures .....	223
<i>Uday S. Reddy (University of Birmingham) and Hongseok Yang (Korean Advanced Institute of Science and Technology)</i>	
Modeling Web Interactions .....	238
<i>Paul Graunke (Northeastern University), Robert Bruce Findler (University of Chicago), Shriram Krishnamurthi (Brown University), and Matthias Felleisen (Northeastern University)</i>	
Type Inference for a Distributed $\pi$ -Calculus .....	253
<i>Cédric Lhossaine (COGS, University of Sussex)</i>	
Type-Safe Update Programming .....	269
<i>Martin Erwig and Deling Ren (Oregon State University)</i>	
Type Error Slicing in Implicitly Typed Higher-Order Languages .....	284
<i>Christian Haack and J.B. Wells (Heriot-Watt University)</i>	

Core Formal Molecular Biology .....	302
<i>Vincent Danos (CNRS University of Paris 7) and Cosimo Laneve (University of Bologna)</i>	
Requirements on the Execution of Kahn Process Networks .....	319
<i>Marc Geilen and Twan Basten (Eindhoven University of Technology)</i>	
Tagging, Encoding, and Jones Optimality .....	335
<i>Olivier Danvy (BRICS, University of Aarhus) and Pablo E. Martínez López (LIFIA, UNLP)</i>	
The Rely-Guarantee Method in Isabelle/HOL .....	348
<i>Leonor Prensa Nieto (INRIA Sophia-Antipolis)</i>	
Building Certified Libraries for PCC: Dynamic Storage Allocation .....	363
<i>Dachuan Yu, Nadeem A. Hamid, and Zhong Shao (Yale University)</i>	
Finite Differencing of Logical Formulas for Static Analysis .....	380
<i>Thomas Reps (University of Wisconsin), Mooly Sagiv (Tel-Aviv University), and Alexey Loginov (University of Wisconsin)</i>	
Register Allocation by Proof Transformation .....	399
<i>Atsushi Ohori (Japan Advanced Institute of Science and Technology)</i>	
<b>Author Index</b> .....	415