

Table of Contents

Shape Analysis	1
<i>Reinhard Wilhelm, Mooly Sagiv and Thomas Reps</i>	
Optimizing Java Bytecode Using the Soot Framework: Is It Feasible?	18
<i>Raja Vallée-Rai, Etienne Gagnon, Laurie Hendren, Patrick Lam, Patrice Pominville and Vijay Sundareshan</i>	
Pipelined Java Virtual Machine Interpreters	35
<i>Jan Hoogerbrugge and Lex Augusteijn</i>	
Automatic Removal of Array Memory Leaks in Java	50
<i>Ran Shaham, Elliot K. Kolodner and Mooly Sagiv</i>	
A Static Study of Java Exceptions Using JESP	67
<i>Barbara G. Ryder, Donald Smith, Ulrich Kremer, Michael Gordon and Nirav Shah</i>	
Fast Escape Analysis and Stack Allocation for Object-Based Programs	82
<i>David Gay and Bjarne Steensgaard</i>	
Constant Propagation on the Value Graph: Simple Constants and Beyond	94
<i>Jens Knoop and Oliver Rüthing</i>	
Simple Generation of Static Single-Assignment Form	110
<i>John Aycock and Nigel Horspool</i>	
Demand-Driven Construction of Call Graphs	125
<i>Gagan Agrawal</i>	
A Framework for Loop Distribution on Limited On-Chip Memory Processors	141
<i>Lei Wang, Waibhav Tembe and Santosh Pande</i>	
Techniques for Effectively Exploiting a Zero Overhead Loop Buffer	157
<i>Gang-Ryung Uh, Yuhong Wang, David Whalley, Sanjay Jinturkar, Chris Burns and Vincent Cao</i>	
Advanced Compiler Optimization for CalmRISC8 Low-End Embedded Processor	173
<i>Dae-Hwan Kim</i>	
Global Software Pipelining with Iteration Preselection	189
<i>David Gregg</i>	
Analysis of Irregular Single-Indexed Array Accesses and Its Applications in Compiler Optimizations	202
<i>Yuan Lin and David Padua</i>	

Advanced Scalarization of Array Syntax 219
Gerald Roth

Techniques for Reducing the Overhead of Run-Time Parallelization 232
Hao Yu and Lawrence Rauchwerger

MATOU: An Implementation of Mode Automata 249
Florence Maraninchi, Yann Rémond and Yannick Raoul

Compiling Adaptive Programs by Partial Evaluation 264
Peter Thiemann

Functional Incremental Attribute Evaluation 279
João Saraiva, Doaitse Swierstra and Matthijs Kuiper

Author Index 295