

Table of Contents

Compilation

C--: A Portable Assembly Language	1
<i>Simon Peyton Jones, Thomas Nordin, and Dino Oliva</i>	
The Brisk Machine: A Simplified STG Machine	20
<i>Ian Holyer and Eleni Spiliopoulou</i>	
A Haskell to Java Virtual Machine Code Compiler	39
<i>David Wakeling</i>	
Common Subexpressions Are Uncommon in Lazy Functional Languages	53
<i>Olaf Chitil</i>	
WITH-Loop Folding in SAC - Condensing Consecutive Array Operations	72
<i>Sven-Bodo Scholz</i>	

Types

Types for Register Allocation	92
<i>Johan Agat</i>	
Types for 0, 1 or Many Uses	112
<i>Torben Æ. Mogensen</i>	

Benchmarking and Profiling

Fully Persistent Graphs - Which One To Choose?	123
<i>Martin Erwig</i>	
Auburn: A Kit for Benchmarking Functional Data Structures	141
<i>Graeme E. Moss, and Colin Runciman</i>	
Complete and Partial Redex Trails of Functional Computations	160
<i>Jan Sparud and Colin Runciman</i>	

Parallelism

Engineering Large Parallel Functional Programs	178
<i>Hans-Wolfgang Loidl and Phil Trinder</i>	

Parallelising a Large Functional Program or: Keeping LOLITA Busy	198
<i>Hans-Wolfgang Loidl, Richard Morgan, Phil Trinder, Sanjay Poria, Chris Cooper, Simon Peyton Jones, and Roberto Garigiano</i>	
Naira: A Parallel ² Haskell Compiler	214
<i>Sahalu Junaidu, Antony Davie, and Kevin Hammond</i>	
Lazy Thread and Task Creation in Parallel Graph Reduction	231
<i>Manuel M. T. Chakravarty</i>	
DREAM: The DistRibuted Eden Abstract Machine	250
<i>Silvia Breitinger, Ulrike Klusik, Rita Loogen, Yolanda Ortega-Mallén, and Ricardo Peña</i>	
Using Multicasting for Optimising Data-Parallelism	270
<i>Pascal R. Serrarens</i>	
Interaction	
Using Concurrent Haskell to Develop Views over an Active Repository	285
<i>Einar W. Karlsen and Stefan Westmeier</i>	
Interactive Functional Objects in Clean	304
<i>Peter Achten and Rinus Plasmeijer</i>	
Language Design	
Programming in the Large: The Algebraic-Functional Language Opal 2 α	322
<i>Klaus Didrich, Wolfgang Grieskamp, Christian Maeder, and Peter Pepper</i>	
Context Patterns, Part II	338
<i>Markus Mohnen</i>	
Garbage Collection	
A Compacting Garbage Collector for Unidirectional Heaps	358
<i>Kent Boortz and Dan Sahlin</i>	
Author Index	375