

Table of Contents

Invited Papers

Program Generation, Termination, and Binding-Time Analysis	1
<i>Neil D. Jones and Arne J. Glenstrup</i>	
Generative Programming for Embedded Systems	32
<i>Janos Sztipanovits, Gabor Karsai</i>	

Regular Papers

Self Reflection for Adaptive Programming	50
<i>Giuseppe Attardi, Antonio Cisternino</i>	
DataScript – A Specification and Scripting Language for Binary Data	66
<i>Godmar Back</i>	
Memoization in Type-Directed Partial Evaluation	78
<i>Vincent Balat, Olivier Danvy</i>	
A Protocol Stack Development Tool Using Generative Programming	93
<i>Michel Barbeau, Francis Bordeleau</i>	
Building Composable Aspect-Specific Languages with Logic Metaprogramming	110
<i>Johan Brichau, Kim Mens, Kris De Volder</i>	
Architectural Refactoring in Framework Evolution: A Case Study	128
<i>Greg Butler</i>	
Towards a Modular Program Derivation via Fusion and Tupling	140
<i>Wei-Ngan Chin, Zhenjiang Hu</i>	
Generative Programming for Embedded Software: An Industrial Experience Report	156
<i>Krzysztof Czarnecki, Thomas Bednasch, Peter Unger, Ulrich Eisenecker</i>	
A Framework for the Detection and Resolution of Aspect Interactions	173
<i>Rémi Douence, Pascal Fradet, Mario Südholt</i>	
Aspect-Oriented Modeling: Bridging the Gap between Implementation and Design	189
<i>Tzilla Elrad, Omar Aldawud, Atef Bader</i>	

Macros That Compose: Systematic Macro Programming	202
<i>Oleg Kiselyov</i>	
Program Termination Analysis in Polynomial Time	218
<i>Chin Soon Lee</i>	
Generators for Synthesis of QoS Adaptation in Distributed Real-Time Embedded Systems	236
<i>Sandeep Neema, Ted Bapty, Jeff Gray, Aniruddha Gokhale</i>	
Optimizing Content Management System Pipelines (Separation and Merging of Concerns)	252
<i>Markus Noga, Florian Krüper</i>	
Component-Based Programming for Higher-Order Attribute Grammars . . .	268
<i>João Saraiva</i>	
Altering Java Semantics via Bytecode Manipulation	283
<i>Éric Tanter, Marc Séguira-Devillechaise, Jacques Noyé, José Piquer</i>	
Meta-programming with Concrete Object Syntax	299
<i>Eelco Visser</i>	
Managing Dynamic Changes in Multi-stage Program Generation Systems	316
<i>Zhenghao Wang, Richard R. Muntz</i>	
Author Index	335

Generative Programming and Component Engineering
ACM SIGPLAN/SIGSOFT Conference, GPCE 2002,
Pittsburgh, PA, USA, October 6-8, 2002. Proceedings
Batory, D.; Consel, C.; Taha, W. (Eds.)
2002, VIII, 338 p., Softcover
ISBN: 978-3-540-44284-4