volume 37 number 3 march 2002

ACM SIGPLAN Notices

A Monthly Publication of the Special Interest Group on Programming Languages

acm PRESS

Proceedings of the 2002 ACM SIGPLAN Workshop on Partial Evaluation and Semantics-Based Program Manipulation (PEPM'02)

Conf- 027

Proceedings of the

2002 ACM SIGPLAN Workshop on Partial Evaluation and Semantics-Based Program Manipulation (PEPM'02)

Portland, Oregon, USA
January 14–15, 2002

Sponsored by the

Association for Computing Machinery

Special Interest Group on Programming Languages
(SIGPLAN)

Contents and Schedule

Monday, January 14

Welcome: 8:45

Invited Talk: 9:00-10:00

Staged Compilation 1
Craig Chambers (University of Washington, USA)

Session I: 10:30-12:00

Towards Bridging the Gap Between Programming Languages and Partial Evaluation 9
Anne-Francoise Le Meur, Julia L. Lawall, and Charles Consel (INRIA/LaBRI, France)

Online Partial Evaluation for Shift and Reset 19
Kenichi Asai (Ochanomizu University, Japan)

Growing Languages with Metamorphic Syntax Macros 31
Claus Brabrand and Michael I. Schwartzbach (BRICS, University of Aarhus, Denmark)

Session II: 14:00-15:30

From Checking to Inference via Driving and Dag Grammars 41
Jens Peter Secher and Morten Heine Sørensen (DIKU, Denmark)

Cost-Augmented Narrowing-Driven Specialization 52
Germán Vidal (DSIC, Technical University of Valencia, Spain)

Path Dependent Analysis of Logic Programs 63
Lunjin Lu (Oakland University, USA)

Session III: 16:00-17:00

Automatic Time-Bound Analysis for a Higher-Order Language 75
Gustavo Gómez and Yanhong A. Liu (Indiana University, USA)

Compositionality in the Puzzle of Semantics 87
Roberto Giacobazzi and Isabella Mastroeni (Dipartimento di Informatica, Universita' degli studi di Verona, Italy)

Tuesday, January 15

Shared Session (WITS): 9:00-10:30

Invited Talk: 11:00-12:00

Implementation of Automatic Differentiation Tools 98
Christian Bischof (Technical University of Aachen, Germany), Paul Hovland, and Boyana Norris (Argonne National Laboratory, USA)

Session IV: 14:00-15:30

Program optimization using indexed and recursive data structures 108
Yanhong A. Liu and Scott D. Stoller (State University of New York at Stony Brook, USA)

Mixed-Initiative Interaction = Mixed Computation 119
Naren Ramakrishnan, Robert Capra, and Manuel Perez-Quinones (Department of Computer Science, Virginia Tech, USA)

CPS Translating Inductive and Coinductive Types 131
Gilles Barthe (INRIA, France), and Tarmo Uustalu (University of Minho, Portugal)