

volume 37

number 3

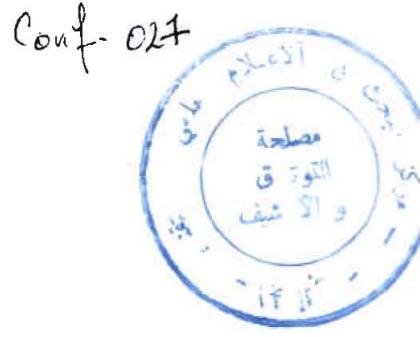
march 2002

ACM SIGPLAN

A Monthly Publication of the Special Interest Group on Programming Languages



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

Mondoy, January 14

Welcome: 8:45

Invited Talk: 9:00-10:00

<i>Staged Compilation</i>	1
Craig Chambers (University of Washington, USA)	

Session I: 10:30-12:00

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

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

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

Session II: 14:00-15:30

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

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

<i>Path Dependent Analysis of Logic Programs</i>	63
Lunjin Lu (Oakland University, USA)	

Session III: 16:00-17:00

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

<i>Compositionality in the Puzzle of Semantics</i>	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

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

Session IV: 14:00-15:30

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

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

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