Object-Oriented Reflection and Metalevel Architectures

Workshop 16

OOPSLA '93
Eighth Annual Converence on Object-Oriented Programming Systems, Languages, and Applications

Washington, D. C.

1 October 1993
Friday

OOPSLA '93 Workshop on Object-Oriented Reflection and Metalevel Architectures

1 October 1993

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Electronic Proceedings

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OOPSLA '93 Workshop on Object-Oriented Reflection and Metalevel Architectures

MORNING SCHEDULE

09:00-09:15 INTRODUCTIONS, Moderator: Foote

09:15-10:40 SESSION 1, Moderator: Friedman

09:15-09:20 Friedman, Introduction

Theory
09:20-09:30 Mendhekar
09:30-10:00 DISCUSSION, Simmons, Laufer

Architecture
10:00-10:10 McAffer
10:10-10:40 DISCUSSION, Bekker, Steyeart

10:40-11:05 MORNING BREAK

11:05-12:30 SESSION 2, Moderator: Cointe

11:05-11:10 Cointe, Introduction

Concurrency
11:10-11:20 Okamura
11:20-11:50 DISCUSSION, Wakita

Massive Parallelism
11:50-12:00 Masuhara
12:00-12:30 DISCUSSION, Tomokiyo

12:30-13:30 BOX LUNCH, Map Room

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AFTERNOON SCHEDULE

13:30-14:55 SESSION 3, Moderator: Malenfant

13:30-13:35 Malenfant, Introduction

C/C++
13:35-13:45 Chiba
13:45-14:15 DISCUSSION, Voss, Burkhart

Partial Evaluation/Implementation
14:15-14:25 Ruf
14:25-14:55 DISCUSSION, Asai, Hayes

14:55-15:20 AFTERNOON BREAK

15:20-16:45 SESSION 4, Moderator: Yokote

15:20-15:25 Yokote, Introduction

Object Integration
15:25-15:35 Fornarino
15:35-16:05 DISCUSSION, Coven, Peng

Systems and Applications
16:05-16:15 Lindstrom
16:15-16:45 DISCUSSION, Gilbert, Rousseau

16:45-17:00 CONCLUSION, Thomas, Foote

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(Papers are ordered alphabetically as indicated)

(1) asai

Duplication and Partial Evaluation to Implement Reflective Languages

Kenichi Asai	University of Tokyo
Satoshi Matsuoka	Universtiy of Tokyo
Akinori Yonezawa	University of Tokyo

(2) bekker

Albedo: A Metaobject Infrastructure for Smalltalk

Carel Bekker	University of Pretoria
Roelf van den Heeverother	University of Pretoria

(3) bracha (listed as lindstrom in the archive)

Module Management as a System Service

Gilad Bracha	Horizon Technologies of New York
Charles F. Clark	University of Utah
Gary Lindstrom	University of Utah
Douglas B. Orr	University of Utah

(4) burkhart1

Request Functions for the C Language

Roger Burkhart	Deere & Company

(5) burkhart2

Effective Description of Enterprise Process

Roger Burkhart	Deere & Company

(6) chang

O-O Reflection for Plugging Together Problem-Solving Components in an Open-Ended Software Architecture

Ruey-Juin Chang	University of Texas at Austin

(7) chiba

Open C++ and Its Optimization

Shigeru Chiba	University of Tokyo
Takashi Masuda	University of Tokyo

(8) cockburn

Position Paper

Alistair Cockburn	Application Development Consulting Practice

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(9) coven

Interconnection Reflection

H. Justin Coven — Bellarmine College

(10) ducasse

Protocol for Managing Dependencies between Objects by Controlling Generic Function Invocation

Stephane Ducasse — Universite de Nice Sophia Antipolis - CNRS
Mireille Fornarino — Universite de Nice Sophia Antipolis - CNRS

(11) elrad

Comprehensive Concurrency Controls Classification: Achieving Reflection in Concurrent Object-Oriented Systems

Tzila Elrad — Illinois Institute of Technology
Ufuk Verun — Illinois Institute of Technology

(12) foote

Architectural Balkanization in the Post-Linguistic Era

Brian Foote — University of Illinois at Urbana-Champaign

(13) gilbert

Postion Paper

John Gilbert — Objective Software

(14) hayes

Reflective Garbage Collection

Barry Hayes — IBM Watson Research Center

(15) laufer

Self-Interpretation and Reflection in a Statically Typed Language

Konstantin Laufer — Loyola University of Chicago
Martin Odersky — Universitat Karlsruhe

(16) liib

Reflective Interfaces

Donald Liib — Royal Institute of Technology, Stockholm

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(17) masuhara

Designing an OO Reflective Language for Massively Parallel Processors

Hidehiko Masuhara	University of Tokyo
Satoshi Matsuoka	University of Tokyo
Akinori Yonezawa	University of Tokyo

(18) mcaffer

The CodA MOP

Jeff McAffer	University of Tokyo

(19) mendhekar

Towards a Theory of Reflective Programming Languages

Anurag Mendhekar	Indiana University
Daniel P. Friedman	Indiana University

(20) okamura

Modification of Shared Resources in AL-1/D

Hideaki Okamura	Keio University
Yutaka Ishikawa	Tsukuba Research Center
Mario Tokoro	Keio University, Sony CSL

(21) peng

Reflectional Physics Composition and Visualization (No electronic copy)

Ming Peng	Tongji University, Shanghai

(22) rousseau

Browsing in Explicit Metaclass Languages:
An Essay in Reflective Programming Environments

Francois Rousseau	Universite de Montreal
Jacques Malenfant	Universite de Montrea

(23) ruf

Partial Evaluation in Reflective System Implementations

Erik Ruf	Microsoft Research Laboratory

(24) simmons

First-class Interpreters: Illustrating the
Limits Imposed by Representation in a Reflective Language

John Wiseman Simmons II	Indiana University
Daniel P. Friedman	Indiana University

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(25) soni

Software Architecture and Reflection

Dilip Soni — Siemens

(26) steyeart

A Two-Staged Introduction of Reflection:
A Computational Characterisation of Reflection Based on Open Implementations

Patrick Steyeart — Vije Universiteit Brussel

(27) tolone

Reflection, CSCW, and Conversation Builder

William J. Tolone — University of Illinois at Urbana-Champaign
Simon M. Kaplan — University of Illinois at Urbana-Champaign
Douglas P. Bogia — University of Illinois at Urbana-Champaign

(28) tomokiyo

Meta-level Architecture in OCore

Takashi Tomokiyo — Tsukuba Research Center
Hiroki Konaka — Tsukuba Research Center
Munenori Maeda — Tsukuba Research Center
Atsushi Hori — Tsukuba Research Center
Yutaka Ishikawa — Tsukuba Research Center

(29) voss

Time Invariant Virtual Member Function Dispatching for C++ Evolvable Classes

Roger Voss — Aldus Corporation

(30) wakita

First Class Messages as First Class Continuations

Ken Wakita — Tokyo Institute of Technology

(31) yokote

Kernel Structuring for Object-Oriented Operating Systems:
The Apertos Approach

Yasuhiko Yokote — Sony Computer Science Laboratory, Inc.

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