

Contents

Keynote Address (Abstract)

Intimate Computing and the Memory Prosthesis: A Challenge for Computer Systems Research?	1
<i>Michael G. Lamming (Rank Xerox EuroPARC)</i>	

Frameworks and Reuse

Active Programming Strategies in Reuse	4
<i>Mary Beth Rosson and John M. Carroll (IBM — T.J. Watson Research Center)</i>	
Frameworks in the Financial Engineering Domain: An Experience Report	21
<i>Andreas Birrer and Thomas Eggenschwiler (Union Bank of Switzerland)</i>	
Integrating Independently-Developed Components in Object-Oriented Languages	36
<i>Urs Hölzle (Stanford University)</i>	

Concurrency and Distribution I

Encapsulating Plurality	57
<i>Andrew P. Black and Mark P. Immel (Digital Equipment Corporation)</i>	
Object Oriented Interoperability	80
<i>Dimitri Konstantas (University of Geneva)</i>	
Implementation of Distributed Trellis	103
<i>Bruno Achauer (University of Karlsruhe)</i>	

Types & Subtypes

A New Definition of the Subtype Relation.....	118
<i>Barbara Liskov (MIT Lab for Computer Science) and Jeannette M. Wing (Carnegie-Mellon University)</i>	
Attaching Second-Order Types to Methods in an Object-Oriented Language.....	142
<i>Yves Caseau (Bellcore) and Laurent Perron (Ecole Normale Supérieure)</i>	
Typed Sets as a Basis for Object-Oriented Database Schemas	161
<i>Herman Balsters, Rolf A. de By (University of Twente) and Roberto Zicari (Johann Wolfgang Goethe-Universität)</i>	

Invited Talk

The OSI Managed-Object Model.....	185
<i>Colin Ashford (Bell-Northern Research)</i>	

Languages and Inheritance

Nested Mixin-Methods in Agora	197
<i>Patrick Steyaert, Wim Codenie, Theo D'Hondt, Koen De Hondt, Carine Lucas and Marc Van Limberghen (Free University of Brussels)</i>	
Solving the Inheritance Anomaly in Concurrent Object-Oriented Programming.....	220
<i>José Meseguer (SRI International)</i>	
Type Inference of SELF: Analysis of Objects with Dynamic and Multiple Inheritance.....	247
<i>Ole Agesen (Stanford University), Jens Palsberg and Michael I. Schwartzbach (Aarhus University)</i>	

Time-Dependent Behaviour

Predicate Classes.....	268
<i>Craig Chambers (University of Washington)</i>	
TOOA: A Temporal Object-Oriented Algebra	297
<i>Ellen Rose (University of Toledo) and Arie Segev (University of California)</i>	
A Timed Calculus for Distributed Objects with Clocks	326
<i>Ichiro Satoh (Keio University) and Mario Tokoro (Sony CSL / Keio University)</i>	

Concurrency and Distribution II

A Language Framework for Multi-Object Coordination.....	346
<i>Svend Frølund and Gul Agha (University of Illinois at Urbana-Champaign)</i>	
PANDA — Supporting Distributed Programming in C++.....	361
<i>Holger Assenmacher, Thomas Breitbach, Peter Buhler, Volker Hübsch and Reinhard Schwarz (University of Kaiserslautern)</i>	
Transparent Parallelisation Through Reuse: Between a Compiler and a Library Approach	384
<i>Jean-Marc Jézéquel (IRISA)</i>	

OO Analysis and Design

Design Patterns: Abstraction and Reuse of Object-Oriented Design	406
<i>Erich Gamma (Taligent, Inc.), Richard Helm (IBM - T.J. Watson Research Center), Ralph E. Johnson (University of Illinois at Urbana-Champaign) and John Vlissides (IBM - T.J. Watson Research Center)</i>	
ObjChart: Tangible Specification of Reactive Object Behavior.....	432
<i>Dipayan Gangopadhyay (IBM - T.J. Watson Research Center) and Subrata Mittra (University of Illinois at Urbana-Champaign)</i>	

O-O Requirements Analysis: an Agent Perspective	458
<i>Eric Dubois, Philippe Du Bois and Michaël Petit (Facultés Universitaires de Namur)</i>	

Reflection

Designing an Extensible Distributed Language with a Meta-Level Architecture.....	482
<i>Shigeru Chiba and Takashi Masuda (University of Tokyo)</i>	
MetaFlex: A Flexible Metaclass Generator	502
<i>Richard Johnson and Muru Palaniappan (Aldus Engineering)</i>	

Panel Discussion (Position Statements)

Aims, Means, and Futures of Object-Oriented Languages: Programming Styles and Tool Support.....	528
<i>Mike Banahan (European C++ User Group), L. Peter Deutsch (Sun Laboratories), Boris Magnusson (University of Lund), and Jens Palsberg (Chairperson, Aarhus University)</i>	

Author Index	531
---------------------------	-----

ECOOP '93 - Object-Oriented Programming
7th European Conference, Kaiserslautern, Germany,
July 26-30, 1993. Proceedings
Nierstrasz, O. (Ed.)
1993, XII, 540 p., Softcover
ISBN: 978-3-540-57120-9