

Table of Contents

Deltatalk: An Empirically and Aesthetically Motivated Simplification of the Smalltalk-80 Language A.BORNING (University of Washington, USA), T. O'SHEA (Xerox Palo Alto Research Center, USA).....	1
Reversible Object-Oriented Interpreters H.LIEBERMAN (MIT,USA).....	11
Using Types and Inheritance in Object-Oriented Languages D.C.HALBERT, P.D.O'BRIEN (Digital Equipment Corp., USA).....	20
Inheritance and Synchronization in Concurrent OOP J.-P.BRIOT (Tokyo Inst. of Technology, J. & LITP, F), A.YONEZAWA (Tokyo Inst. of Technology, J).....	32
On Including Part Hierarchies in Object-Oriented Languages, with an Implementation in Smalltalk E.BLAKE, S.COOK (Queen Mary College, London University, UK)..	41
What is "Object-Oriented Programming"? (invited paper) B.STROUSTRUP (AT&T Bell Laboratories, USA).....	51
Object Representation of Scope During Translation S.C.DEWHURST (AT&T Bell Laboratories, USA).....	71
Dynamic Grouping in an Object-Oriented Virtual Memory Hierarchy I.WILLIAMS, M.WOLCZKO, T.HOPKINS (Manchester University, UK).....	79
Traveler: The Apiary Observatory C.R.MANNING (MIT, USA).....	89
Classification of Actions or Inheritance also for Methods B.B.KRISTENSEN (Aalborg University, DK), O.L.MADSEN (Aarhus University, DK), B.MOLLER-PEDERSEN (Norwegian Computing Center, N), K.NYGAARD (University of Oslo, N)	98
Semantics of Smalltalk-80 M.WOLCZKO (Manchester University, UK).....	108
The Construction of User Interfaces and the Object Paradigm J.COUTAZ (IMAG, F).....	121

The ZOO Metasystem: A Direct-Manipulation Interface to Object-Oriented Knowledge Bases	
W.-F.RIEKERT (Siemens AG, FRG)	131
The Filter Browser Defining Interfaces Graphically	
R.K.EGE, D.MAIER (Oregon Graduate Center, USA), A.BORNING (University of Washington, USA)	140
The Common Lisp Object System: An Overview (invited paper).	
L.G.DEMICHIEL, R.P.GABRIEL (Lucid Inc., USA)	151
Concurrency Features for the Trellis/Owl Language	
J.E.B.Moss, W.H.KOHLER (University of Massachusetts, USA)	171
Objects as Communicating Prolog Units	
P.MELLO, A.NATALI (University of Bologna, I)	181
An Object Modelling Technique for Conceptual Design	
M.E.S.LOOMIS, A.V.SHAH, J.E.RUMBAUGH (Calma Company, USA & General Electric CR&D, USA)	192
A Modeller's Workbench: Experiments in Object-Oriented Simulation Programming	
W.KREUTZER (University of Canterbury, NZ)	203
Behavioral Simulation Based on Knowledge Objects	
T.MARUICHI, T.UCHIKI, M.TOKORO (Keio University, J)	213
Conformance, Genericity, Inheritance and Enhancement	
C.HORN (Trinity College Dublin, IRL)	223
Inheritance and Subtyping in a Parallel Object-Oriented Language	
P.AMERICA (Philips Research Laboratories, NL)	234
On Some Algorithms for Multiple Inheritance in Object- Oriented Programming	
R.DUCOURNAU (SEMA METRA,F), M.HABIB (LIB, ENSTBr/UBO, F)	243
FORK: A System for Object- and Rule-Oriented Programming	
C.BECKSTEIN, G.GÖRZ, M.TIELEMAN (University of Erlangen- Nürnberg, FRG)	253
Overview of a Parallel Object-Oriented Language CLIX	
J.H.HUR, K.CHON (Korea Advanced Institute of Science and Technology, K)	265