ISLIP 91

Proceedings

4th International Symposium on Lucid and Intensional Programming

SRI International
Menlo Park, California, USA
April 29 – 30, 1991
Preface

ISLIP '91 is the fourth symposium devoted to the language Lucid, and, more generally, to intensional programming. The previous three symposia were held in Victoria, BC (1988), Tempe, Arizona (1989), and Kingston, Ontario (1990).

The response to the call for papers was quite encouraging, more in the quality of the papers submitted than in the number submitted. At the Symposium, a total of ten papers were presented, covering a wide spectrum, from semantics to language design to applications of intensionality. The two panel sessions, one on each afternoon, were designed to provide a stimulating forum for integrating and contrasting intensionality with other views of computing. Demonstrations at the end of first day of the symposium showed some practical applications of intensionality.

Since the inception of ISLIP, we have made significant progress in understanding, explaining, and applying "intensionality." To mark the culmination of the first four years of ISLIPs, we are actively pursuing the idea of publishing a book, tentatively titled "Multidimensional Dataflow."

I would like to thank the many people who have helped make ISLIP '91 happen: specifically, Judith Burgess, who, despite a tight schedule, performed extraordinarily through various phases of organizing this symposium; Tony Faustini, who, as always, was generous with his time and support; José Meseguer, David Israel, David Wise, Ed Ashcroft, Bill Wadge, and Steve Matthews for graciously agreeing to be members of the panels; the SRI Computer Science Laboratory, under Mark Moriconi, Director, for its generous financial support. Last but not least, I would like to acknowledge the members of the program committee, the referees, all authors who submitted papers, and all participants, without whom this symposium would not have been possible.

R. Jagannathan
SRI International
April 1991
ISLIP '91 Program Committee and Referees

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# Table of Contents

Lucid is Second-Order: Explaining Lucid and Intensionality to
Functional Programmers ........................................... 1

*E.A. Ashcroft, Arizona State University*

Two Indexical Parallel Programming Techniques .................. 9

*Weichang Du, University of Victoria*

Indexical Lucid ..................................................... 19

*A.A. Faustini, Arizona State University
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Graph Algorithms in Lazy Functional Programming Language ...... 35

*Yago Kashiwagi, Hitachi, Ltd., Japan
David S. Wise, Indiana University, Bloomington*

Fixpoints and Semantics of Concurrency .......................... 47

*Irene Guessarian, LITP, University of Paris*

Higher Order Lucid .................................................. 62

*Bill Wadge, University of Victoria*

Some Thoughts on Dataflow Real-Time Programming Languages ...... 70

*John A. Plaice, University of Ottawa*

Lobjcid: Objects in Lucid .......................................... 80

*Bjorn Freeman-Benson, University of Washington*

Rx for Syntax: Operator Nets for Formal Visual Programming ........ 88

*W.H. Mitchell and E.A. Ashcroft, Arizona State University*

Tournament Computations in GLU ..................................... 98

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Panel Discussions

Extensional versus Intensional: Are Streams just Lists?
   Moderator: A.A. Faustini, Arizona State University
   David Wise, Indiana University
   David Israel, SRI International
   Bill Wadge, University of Victoria

Eduction, Rewriting, Reduction: How are they different?
   Moderator: Bill Wadge, University of Victoria
   José Meseguer, SRI International
   E.A. Ashcroft, Arizona State University
   Steve Mathews, Warwick University

Demonstrations

Lucid goes Analog
   Jonathan Mills, Indiana University

Visual Programming Using Operator Nets
   W.H. Mitchell, Arizona State University

The Internet as a Parallel Computer
   R. Jagannathan, SRI International