



UNIVERSITÉ
LAVAL

FACULTÉ DES SCIENCES ET DE GÉNIE
Département d'Informatique

Cité universitaire
Québec, Canada G1K 7P4

ISLIP 93

Sixth International Symposium on Lucid and Intensional Programming

26–27 April 1993

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Symposium on
Lucid and Intensional
Programming

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Lucid and Intensional Programming
26–27 April 1993**Monday, 26 April 1993**

- 9h–10h Registration
- 10h–11h Guang Gao (invited talk, McGill University): Evolution of Multithreaded Architectures Based on Dataflow (abstract, p. 1).
- 11h–11h30 Coffee
- 11h30–12h Weichang Du (University of New Brunswick): Indexical Imperative Languages for Data-Parallel Programming (pages 2–22).
- 12h–13h30 Lunch
- 13h30–14h Panagiotis Rondogiannis, Bill Wadge (University of Victoria): A Dataflow Implementation Technique for Lazy Typed Functional Languages (pages 23–42).
- 14h–14h30 Steve Matthews (University of Warwick): The Cycle Contraction Mapping Theorem (pages 43–59).
- 14h30–15h Marc Stadelmann (University of Victoria): A Spreadsheet Based on Constraints (pages 60–68).
- 15h–15h30 Coffee
- 15h30–16h30 Panel discussion

Tuesday, 27 April 1993

- 9h–10h Nicolas Halbwachs (invited talk, IMAG Institute and Stanford University), Jean-Claude Fernandez, Ahmed Bouajjani (IMAG Institute): An executable temporal logic to express safety properties and its connection with the language Lustre (pages 69–82).
- 10h–10h30 John Plaice, Ridha Khédri (Université Laval), René Lalement (École Nationale des Ponts et Chaussées): From abstract time to real time (pages 83–93).
- 10h30–11h Coffee
- 11h–11h30 Senhua Tao (University of Victoria): TLucid and Intensional Attribute Grammars (pages 94–106).
- 11h30–12h Edward Ashcroft (Arizona State University): LewPlewce (pages 107–119).
- 12h–13h30 Lunch
- 13h30–14h Mehmet Orgun (Macquarie University), Bill Wadge (University of Victoria): Chronolog admits a complete proof procedure (pages 120–135).
- 14h30–15h Dave Rolston (AI Lab, ESL, California), Tony Faustini (Arizona State University): An Overview of an Eductive Evaluation Mechanism for Logic Programs (pages 136–157).
- 15h–15h30 Coffee
- 15h30–16h30 Panel discussion

All talks will be held in the Auditorium (room 1330) of the Pavillon La Laurentienne, rue des Sciences de l'Éducation, Université Laval, Ste-Foy, Québec. Food will be served in the Dining Room (room 1320).

Preface

ISLIP93 is the sixth symposium devoted to the Lucid language and, more generally, to intensional programming. The previous symposia were held in Victoria (BC, Canada), Tempe (AZ, USA), Kingston (ON, Canada), Palo Alto (CA, USA) and Oakland (CA, USA).

This year's proceedings are the thickest of any ISLIP. There are fundamental papers in many subjects. On the practical side, they include data parallelism, real-time programming, implementation of functional and logic languages and new applications for intensional programming. On the theoretical side, they include insights in prescriptive denotational semantics.

As the concept of intensionality matures, we are realizing that it seems to apply to all branches of computer science. The intensional concepts of change through space and time, fundamental to most sciences, are only in their infancy in computer science. I hope that these papers are widely diffused.

I would like to thank the authors and participants, without whom this conference could not have taken place. I would in particular like to thank Guang Gao of McGill University and Nicolas Halbwachs of the IMAG Institute for having come to give talks.

Québec, Canada
April 1993

John Plaice