ISLIP 90

The 1990 International Symposium on Lucid and Intensional Programming*

May 13 - 15, 1990
Ramada Inn, Kingston

Department of Computing and Information Science

Queen's University at Kingston
Kingston, Ontario, Canada
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Lucid and Intensional Programming*

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* This workshop has been sponsored by; The Information Technology Research Centre, Ontario, and the Department of Computing and Information Science, Queen's University.
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   (in alphabetical order)
2. THE SYMPOSIUM SERIES:

The 1990 International Symposium on Lucid and Intensional Programming will be the 3rd Annual Symposium of its kind. This symposium concerns itself with the dataflow language Lucid, and more generally, the use of intensional concepts in programming languages and systems. Topics include, the following:

- Models of Parallel Computation (Dataflow, Eduction, Streams).
- Architectures and Implementations.
- Semantics, Specification and Verification.
- Real-time Programming.
- Modal Logic and Intensionality.

PROGRAM COMMITTEE:

Janice Glasgow, Queen's University, - Chair

Edward A. Ashcroft, Arizona State University

Roger Lee, NASA/JPL

W.F. McColl, PRG

Prakash Panangaden, Queen's University

David Skillicorn, Queen's University

William Wadge, University of Victoria

Andrew Wendelborn, University of Adelaide

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3. PROGRAM OF THE THIRD SYMPOSIUM:

Sunday, 13 May
6:00 pm Wine and Cheese reception at the Ramada Inn, Sydenham Room

Monday 14 May
All Talks will be held in the Sydenham Room, Ramada Inn.

Session I: Chair Janice Glasgow

8:45 am Coffee/Tea
Opening remarks by J. Glasgow

9:00 am W. Wadge
University of Victoria, Canada
New Frontiers in Intensional Programming.

9:30 am M. Beynon, S. Russ, Y. Yung
University of Warwick, Coventry

10:00 am Discussion
What is Intensional Programming?

10:30 am Coffee Break

11:00 am J. Sanders and D. B. Skillicorn
Queen's University, Canada
Modal Logic and Lucid Specifications.

11:30 am J. Glasgow
Queen's University, Canada
An Operational View of a Logic for Time and Knowledge.

12:00 pm Discussion
Modal Logic and Intensionality!

12:30 pm Break for Lunch
Ollie's Restaurant, Ramada Inn
Session II: Chair David Skillicorn

2:00 pm  S. Matthews
University of Warwick, Coventry
_A Fully Functional Description of Lucid._

2:30 pm  R.A. Frost and W.C. Saba
University of Windsor, Canada
_Towards a Calculus of Lazy Interpreters._

3:00 pm  S. Tao
University of Victoria, Canada
_Temporal Attribute Grammars and Incremental Evaluation._

3:30 pm  Coffee Break

4:00 pm  Discussion
_Intensional Programming or Functional Programming?_

6:30 pm  Dinner
_The General Wolfe Hotel_
_Wolfe Island._
Ferry departs from the dock at 6:00

Tuesday, 15 May

Session III: Chair Prakash Panagaden

9:00 am  Invited Speaker
Eugene Stark
SUNY at Stonybrook, U.S.A.
_Recent Advances in the Theory of Indeterminate Dataflow Networks._

10:00 am  Coffee Break

10:30 am  P. Kearney
Griffith University, Queensland
_A Fully Abstract Functional Model for Real Time Systems._

11:00 am  V. Shanbhogue
Cornell University, U.S.A.
_The Relationship Between Multi-way and Two-way fair Merges._

11:30 am  Discussion
_Dataflow and Nondeterminism._

12:00 pm  Break for Lunch
Ollie's Restaurant, Ramada Inn

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Session IV: Chair Tony Faustini

1:00 pm  
E. Ashcroft  
Arizona State University, U.S.A.  
*Parallel Programming in Lucid.*

1:30 pm  
E. Payan  
INPG, France  
*A New programming Method for Highly Parallel Architecture.*

CONFERENCE CONCLUDES
4. LIST OF PARTICIPANTS:
(in alphabetical order)

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