ICALP - LICS 2004 Workshop on

Logics for Resources, Processes and Programs

Turku, Finland, July 13, 2004

Preliminary Programme

Session I:

09h05 Permission Accounting in Separation Logic (**Invited talk**)
R. Bornat (School of Computing at Middlesex, UK).

09h50 On Model Checking Generic Topologies
M. Bozga, R. Iosif (Verimag, Grenoble, France).

10h10 Locations in Logic: Historical Roots
M. Arndt (Univ. Tuebingen, Germany).

10h30 - 10h45 Questions and Discussion

10h45 - 11h15 COFFEE BREAK

Session II: **Proof-search**

11h15 Linearity Constraints as Bounded Intervals in Linear Logic Programming
J. Polakow (Univ. Kobe, Japan)

11h35 On Light Logics, Uniform Encodings and Polynomial Time
U. Dal Lago (Univ. Bologna, Italy), P. Baillot (Univ. Paris 13, France)

11h55 Proof-theoretic Infinitary Computations
J. Harland (RMIT Univ. Melbourne), D. Pym (Univ. Bath, UK)

12h15 Detecting Loops During Proof Search in Propositional Affine Logic
J. Harland and T. Lutovac (RMIT Univ, Melbourne, Australia)

12h35 - 12h45 Questions and Discussion

12h45 - 14h00 LUNCH

<u>Session III</u>: Languages

14h00 A Separation Logic Proof System for a Class-based Language
R. Middelkoop, K. Huizing, R. Kuiper (Univ. Eindhoven, The Netherlands).

14h20 Context Logic for Tree Update
C. Calcagno, Ph. Gardner, U. Zarfaty (Imperial College, London, UK).

14h40 Towards certificate generation for linear heap consumption
L. Beringer, A. Momigliano (Univ. Edinburgh, Scotland),
M. Hofmann, O. Shkaravska (LM Univ. Muenchen, Germany).

15h00 Counting Instances of Software Components
M. Bezem and H. Truong (Univ. Bergen, Norway).

15h20 - 16h00 Questions and Discussion

16h00 - 16h30 COFFEE BREAK

<u>Session IV</u>: Semantics

16h30 Adjunct Elimination Through Games
A. Dawar (Univ. Cambridge, UK), Ph. Gardner (Imperial College, UK),
G. Ghelli (Univ. Pisa, Italy)

16h50 Epistemic actions as resources
A. Baltag, B. Coecke (Univ. Oxford, IK), M. Sadrzadeh (Univ. Quebec, Montreal)

17h10 A Unified Category-Theoretic Approach to Substitution in Substructural Logics.
J. Power and M. Tanaka (Univ. Edinburgh, Scotland)

17h30 A System of Bunching and Polymorphism
M. Collinson and D. Pym (Univ. Bath, UK)

17h50-18h15 Final discussion and end of the workshop