Call For Papers

Workshop on

Logics for Resources, Processes, and Programs

July 13, 2004

affiliated with LICS 2004 and ICALP 2004
Turku, Finland

A one day workshop on *Logics for Resources, Processes, and Programs* will be held in July 2004 in conjunction with LICS and ICALP conferences in Turku, Finland, with D. Galmiche, P. O'Hearn and D. Pym as organizers.
Hardcopies of the preliminary proceedings will be distributed at the workshop and a Special Issue of a Journal on these topics is expected after the workshop.

TOPICS

The notion of resource is a basic one in many fields, but it appears as central in computer science. Various logics, typically involving substructural connectives, have been proposed in order to provide a logical analysis of this notion from different viewpoints. Examples include linear logic (number-of-uses reading), the bunched implications logic (sharing interpretations), so-called separation and spatial logics (pointer logic and local reasoning, logics for concurrency, logics for data structures such as trees). Logics such as these, which may include a wide range of modalities and domain-specific operators, allow the description of properties of systems, of process calculi, and of programs, and so provide bases for specification and theorem-proving tools.

The objective of the workshop to provide a forum for discussion between researchers interested in logics of resources (from foundations to related calculi and applications) and researchers interested in languages and methods for specification of mobile, distributed, concurrent systems and their verification.
Topics of interest, in this context, include but are not restricted to the following:

- Logics for resources: semantics and proof theory;
- Process calculi, concurrency, resource-distribution;
- Reasoning about programs and systems;
- Extensions of logics, e.g. with modalities;
- Languages of assertions, languages based on resource logics (query languages, pointers, trees, and graphs) and reasoning;
- Theorem proving and model checking in resource logics: decision procedures, strategies, complexity results.

SUBMISSIONS

Researchers interested in presenting their works are invited to send an extended abstract (up to 10 pages) by e-mail submissions of Postscript files to D. Galmiche (Didier.Galmiche@loria.fr) before April 24, 2004. Papers will be reviewed by peers, typically members of the Programme Committee.
The cover page should include a return mailing address and, if possible, an electronic mail address and a fax number. Additional information will be available through WWW address: **http://www.loria.fr/~galmiche/LRPP04.html**.

Program Committee

L. Caires (UNL Lisbon, Portugal)

D. Galmiche (LORIA, France)

P. O'Hearn (QMW, UK)

D. Pym (HP Labs and Bath, UK)

V. Sassone (Sussex, UK)

P. Schroeder-Heister (Tuebingen, GR)

D. Walker (Princeton, USA)

Important Dates

Submissions: **April 24, 2004**

Notifications: **May 17, 2004**

Final papers: **June 7, 2004**

Workshop date: **July 13, 2004**

More Information

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