Call for Papers

LFMTP 2009: 4th International Workshop on Logical Frameworks and Meta-languages, Theory and Practice

Affiliated with CADE-22, Montreal, Canada, August 2–7, 2009

http://workshops.inf.ed.ac.uk/lfmtp

Important Dates

Abstract submission:	May 1
Submission:	May 8
Notification:	June 15
Final papers due:	July 3
Workshop:	August 2

Program Committee

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The LFMTP workshop continues a series of workshops on Logical Frameworks and Metalanguages (LFM) and Mechanized Reasoning about Languages with Variable Binding (MERλIN). This is the fourth joint workshop in the series. LFMTP 2009 is also coordinating with the 2009 International Workshop on Proof Search in Type Theories (PSTT), with joint invited and tutorial speakers. Logical frameworks and meta-languages form a common substrate for representing, implementing, and reasoning about a wide variety of deductive systems of interest in logic and computer science. LFMTP 2009 will provide researchers with a forum to review state-of-the-art techniques and to present progress in:

- the automation and implementation of the meta-theory of programming languages and related calculi, particularly work which involves variable binding and fresh name generation;
- the design of proof assistants, automated theorem provers, and formal digital libraries building upon logical framework technology;
- theoretical and practical issues concerning the encoding of variable binding, especially the representation of, and reasoning about, datatypes defined from binding signatures;
- case studies of meta-programming, and the mechanization of the (meta) theory of descriptions of programming languages and other calculi. Papers focusing on logic translations and on experiences with encoding programming languages theory will be particularly welcome.

Papers are solicited on topics including, but not limited to:

- logical framework design
- meta-theoretic analysis
- applications and comparative studies
- implementation techniques
- efficient proof representation and validation
- proof-generating decision procedures and theorem provers
- proof-carrying code
- substructural frameworks
- semantic foundations
- methods for reasoning about logics
- formal digital libraries

Three categories of papers are solicited:

- Category A: Detailed and technical accounts of new research: up to eight pages including bibliography.
- Category B: Shorter accounts of work in progress and proposed further directions, including discussion papers: up to six pages including bibliography and appendices.
- Category C: System descriptions presenting an implemented tool and its novel features: up to four pages. A demonstration is expected to accompany the presentation.

Submissions will be accepted electronically. Simultaneous submission with another workshop, conference or journal is **not** allowed. Authors of accepted papers are expected to present their paper at the workshop. Accepted papers will be published electronically as part of the ACM International Conference Proceedings Series. For further information and submission instructions, see the LFMTP web page: http://workshops.inf.ed.ac.uk/lfmtp.