Workshop Proposal:

Workshop on Logical Frameworks and Meta-Languages: Theory and Practice

LFMTP2026

ORGANISATIONAL PART

- Contact information for the workshop organizers: Elaine Pimentel, e.pimentel@ucl.ac.uk; Olivier Hermant Olivier.Hermant@minesparis.psl.eu; Sophie Tourret sophie.tourret@loria.fr
- Proposed affiliated conference: FSCD2026
- Estimate of the number of workshop participants: 20
- Proposed format and agenda: paper presentations
- Potential invited speakers: Alberto Momigliano and Assia Mahboubi
- Procedures for selecting papers and participants: review via Easychair
- Plans for dissemination: proceedings at EPTCS
- Duration: one day
- Preferred period: second block (July 24-25) – we actually prefer July 24.

SCIENTIFIC CONTENT

Description:

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. Their design and implementation on the one hand and their use in reasoning tasks ranging from the correctness of software to the properties of formal computational systems on the other hand have been the focus of considerable research over the last three decades. This workshop will bring together designers, implementors, and practitioners to discuss various aspects impinging on the structure and utility of logical frameworks, including the treatment of variable binding, inductive and co-inductive reasoning techniques, and the expressivity and lucidity of the reasoning process.

 LFMTP 2026 will provide researchers a forum to present state-of-the-art techniques and discuss progress in areas such as the following:

- Encoding and reasoning about the meta-theory of programming languages and related formally specified systems.
- Theoretical and practical issues concerning the treatment of variable binding, especially the representation of, and reasoning about, datatypes defined from binding signatures.
- Logical treatments of inductive and co-inductive definitions and associated reasoning techniques.
- New theory contributions such as canonical and substructural frameworks, contextual frameworks, proof-theoretic foundations supporting binders, functional programming over logical frameworks, or homotopy type theory.
- Systematic translation, combination, and integration of logics or theorem prover libraries.
- Applications of logical frameworks, e.g. in certification and guarantee of security properties.
- Techniques for programming with binders in functional programming languages such as Haskell, OCaml, or Agda and logic programming languages such as lambda Prolog or Alpha-Prolog.

History:

The proposed workshop continues the series of workshops on logical frameworks and meta-languages that started in 1999. It began with LFM and MERLIN, which were interleaved until 2005. These two workshops were merged in 2006 to form LFMTP, which has has grown into one of the main venues for presenting results on type theories and logical frameworks.

LFM: International Workshop on Logical Frameworks and Meta-languages (1999 - 2004)

LFM'99, Paris, France, affiliated with PPDP and PLI, organized by Amy Felty (now University of Ottawa)

LFM'00, Santa Barbara, USA, affiliated with LICS, organized by Joelle Despeyroux (INRIA)

LFM'02, Copenhagen, Denmark, affiliated with LICS at FLOC, organized by Frank Pfenning (Carnegie Mellon University).

LFM'04, Cork, Ireland, affiliated with IJCAR, organized by Carsten Schürmann (Yale University)

MERLIN: International Workshop on MEchanized Reasoning about Languages with variable BInding (2001 - 2005)

MERLIN 2001, Siena, Italy, affiliated with IJCAR, organized by Roy L. Crole, Simon J. Ambler, and Alberto Momigliano (then at University of Leicester, UK)

MERLIN 2003, Uppsala, Sweden, affiliated with PLI, organized by Alberto Momigliano (then at University of Leicester, UK) and Marino Miculan (University of Udine, Italy)

MERLIN 2005, Tallinn, Estonia, affiliated with ICFP, organized by Alberto Momigliano (then at University of Edinburgh), Ivan Scagnetto (Universiy of Udine), and Alwen Tiu (INRIA Lorraine)

LFMTP: International Workshop on Logical Frameworks and Meta-Languages: Theory and Practice (2006 - present)

LFMTP'06, Seattle, USA, affiliated with LICS and IJCAR at FLoC, organized by Brigitte Pientka (McGill University) and Alberto Momigliano (University of Edinburgh)

LFMTP'07, Bremen, Germany, affiliated with CADE, organized by Carsten Schürmann (IT University of Copenhagen) and Brigitte Pientka (McGill University)

LFMTP'08, Pittsburgh, USA, affiliated with LICS, organized by Andreas Abel (LMU) and Christian Urban (TUM)

LFMTP'09, Montreal, Canada, affiliated with CADE, organized by Amy Felty (University of Ottawa) and James Cheney (University of Edinburgh)

LFMTP'10, Edinburgh, Scotland, affiliated with LICS at FLoC, organized by Karl Crary (Carnegie Mellon University) and Marino Miculan (University of Udine).

LFMTP'11, Nijmegen, The Netherlands, affiliated with ITP, organized by Herman Geuvers (Radboud University Nijmegen) and Gopalan Nadathur (University of Minnesota).

LFMTP'12, Copenhagen, Denmark, affiliated with ICFP, organized by Adam Chlipala (MIT) and Carsten Schuermann (ITU)

LFMTP'13, Boston, USA, affiliated with ICFP, organized by Alberto Momigliano (University of Milan), Brigitte Pientka (McGil University), and Randy Pollack (Harvard University)

LFMTP'14, Vienna, Austria, affiliated with CSL-LICS and IJCAR as part of FLoC and VSL'14, organized by Amy Felty (University of Ottawa) and Brigitte Pientka (McGill University)

LFMTP'15, Berlin, Germany, affiliated with CADE-25, organized by Iliano Cervesato (Carnegie Mellon University) and Kaustuv Chaudhuri (INRIA)

LFMTP'16, Porto, Portugal, affiliated with FSCD, organized by Gilles Dowek (INRIA) and Dan Licata (Carnegie Mellon University)

LFMTP'17, Oxford, UK, affiliated with FSCD, organized by Florian Rabe (Jacobs University Bremen) and Marino Miculan (University of Udine)

LFMTP'18, Oxford, UK, affiliated with FLoC, organized by Frédéric Blanqui (INRIA, France) and Giselle Reis (Carnegie Mellon University, Qatar)

LFMTP'19, Oxford, UK, affiliated with LICS'19, organized by Dale Miller (INRIA and LIX, France) and Ivan Scagnetto (University of Udine)

LFMTP'20, Paris, France, affiliated with IJCAR'20, organized by Claudio Sacerdoti Coen (University of Bologna) and Alwen Tiu (Australian National University)

LFMTP'21, Pittsburgh, Pennsylvania, USA, affiliated with CADE 28, organized by Elaine Pimentel (Universidade Federal do Rio Grande do Norte: Natal, RN, BR) and Enrico Tassi (Inria, Sophia-Antipolis, FR)

LFMTP'22, Haifa, Israel, affiliated with FLoC 2022, organized by David Baelde (ENS Cachan, France) and Vivek Nigam (Federal University of Para'ba, Brazil)

LFMTP'23, Rome, Italy, affiliated with FSCDÕ23, organized by Alberto Ciaffaglione (Università degli Studi di Udine) and Carlos Olarte (LIPN, Université Sorbonne Paris Nord)

LFMTP'24, July 8, Tallinn, Estonia, associated with FSCD at FSCD/LiCS/ICALP 2024, organized by Florian Rabe (University of Erlangen-Nuremberg, Germany) and Claudio Sacerdoti Coen (University of Bologna, Italy)

LFMTP'25, July 19, Birmingham, UK, associated with FSCD 2025, organized by Kaustuv Chaudhuri, Co-Chair (Inria) and Daniele Nantes-Sobrinho, Co-Chair (Imperial College London)

ORGANIZATION

Workshop Co-chairs:

   Olivier Hermant and Sophie Tourret

Steering Committee:

  - David Baelde (ENS Rennes)

  - Claudio Sacerdoti Coen (University of Bologna)

  - Amy Felty (University of Ottawa)

  - Brigitte Pientka (McGill University)

  - Elaine Pimentel (University College London) -- chair

  - Enrico Tassi (Inria Sophia-Antipolis)

- Alwen Tiu (Australian National University)

Potential Program Committee Members:

 TBD

Estimate of Audience Size:

  20-40

Proposed Format:

The workshop program will be composed of regular papers (formally reviewed and published), invited talks, and informal work-in-progress talks.

Budget:

The workshop expenses consist of expenses for about 2 invited speakers. We expect to profit from the attendance to the main conference for providing the invited speakers.

Potential Invited Speakers:

LFMTP and its predecessor workshops have had many invited speakers over the years. We will ask the program committee for suggestions. Some initial suggestions include: Alberto Momigliano and Assia Mahboubi

Tentative Schedule:

  Abstract submission deadline: May 2

  Submission deadline: May 9

  Notification to authors: June 8

  Final version due: June 20

  Workshop: July 24

Procedures for Selecting Papers and Participants:

Submissions will include regular papers of approximately 8 pages and work-in-progress papers of approximately 4 pages (formatted using EPTCS style). As in the past, we will have a program committee of 8-10 people who will formally review the papers and help select the invited speakers.

The topics are typically of interest to attendees of LICS, FSCD and ICALP track B. As in the previous years, the workshop will be publicized through mailing lists by repeated calls for papers and participation.

Plans for Dissemination:

We plan to publish accepted papers electronically as part of the ACM International Conference Proceedings Series as has been done in several recent years.

Duration:

1 day