# Logical Frameworks and Meta-Languages: Theory and Practice

2024-07-08

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, implementation and their use in reasoning tasks, ranging from the correctness of software to the properties of formal systems, have been the focus of considerable research over the last three decades.

The LFMTP workshop brought 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 expressiveness and lucidity of the reasoning process.

The 2024 instance of LFMTP was organized by Florian Rabe and Claudio Sacerdoti Coen in Tallinn, Estonia, the 8th July, as a satellite event of the FSCD conference. We are very grateful to the conference organizers for providing the infrastructure and local coordination for the workshop as well as to EPTCS for providing the logistics of publishing these proceedings.

The member of the programme committee were:

- Mauricio Ayala-Rincón (University of Brasilia)
- Mario Carneiro (Carnegie Mellon University)
- Kaustuv Chaudhuri (Inria Saclay)
- Cyril Cohen (Inria Sophia Antipolis)
- Alberto Momigliano (University of Milan, Italy)
- Florian Rabe (University of Erlangen-Nuremberg), co-chair
- Colin Rothgang (IMDEA, Madrid)
- Claudio Sacerdoti Coen (University of Bologna, Italy), co-chair
- Sophie Tourret (Inria Nancy & Loria)
- Theo Winterhalter (Inria Saclay)

Additionally, Alessio Coltellacci and Chuta Sano provided external reviews. The editors are very grateful for their thorough analysis of all submissions.

The workshop received 8 submissions, of which 6 were presented at the workshop. Of these, 2 were work-in-progress presentations, and 4 were accepted for these formal proceedings. Additionally, Carsten Schürmann of IT University of Copenhagen gave an invited talk on Nominal State Separating Proofs.

July 03, 2024

Florian Rabe and Claudio Sacerdoti Coen
PC chairs of LFMTP 2024