Logical Frameworks and Meta-Languages: Theory and Practice

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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 brings 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, as a satellite event of the FSCD conference. It 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.