



Preface

This volume contains the post proceedings of the Tenth Workshop on Logical and Semantic Frameworks, with Applications (LSFA 2015). The workshop was held in Natal, Brazil on August 31 – September 1, 2015 as part of NAT@Logic 2015.

LSFA is an annual workshop since its beginning in 2006. To be more precise, LSFA was hosted in Natal (2006 and 2010), in Ouro Preto (2007), in Salvador (2008), in Brasília (2009 and 2014), in Belo Horizonte (2011), in Rio de Janeiro (2012), and in São Paulo (2013).

The aim of LSFA is to bring together researchers and students interested in theoretical and practical aspects of logical and semantic frameworks and their applications. This included topics such as proof, type and rewriting theory, specification and deduction languages, formal semantics of languages and systems, among others.

In total there have been 19 submissions of which 16 have been completed. From these 16 submissions, 13 were accepted as regular presentations. Moreover, 2 submissions have been invited as a single shared presentation, and 1 submission was accepted as a short presentation. Each submission was reviewed by at least three reviewers, and an electronic Program Committee (PC) meeting was held using the EasyChair system. The reviews were written by the 30 PC members and 16 additional reviewers. Abstracts of the invited talks and the selected presentations were included in the Pre-Proceedings, distributed during the workshop. After the workshop, authors were invited to resubmit the revised versions of their papers, and after a second round of reviewing, 12 papers were selected for publication. This volume contains these accepted papers together with three technical contributions, which were also subjected to anonymous reviewing, corresponding to the invited talks: Ofer Arielle (Deductive Argumentation by Enhanced Sequent Calculi and Dynamic Derivations, with Christian Straßer), Dale Miller (Proof Certificates for Equality Reasoning, with Zakaria Chihani) and Valéria de Paiva (Fibrational Modal Type Theory, with Eike Ritter). We are most grateful for the work and support of the invited speakers.

We thank the PC members and the additional reviewers for doing a great job in writing high-quality reviews and active discussions.

We would like to thank all those who contributed to LSFA 2015, and in particular

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the invited speakers for kindly accepting to present their work at LSFA 2015. We are very grateful to the local organizers, especially to Elaine Pimentel and João Marcos, for taking care of all the local organization and for their efficient support. Finally, we appreciate the financial support provided by CNPq, CAPES, DMAT/UFRN, PPGMAE/UFRN, PPGSC/UFRN, FWF project Y757, and the EU FP7 Marie Curie PIRSES-GA-2012-318986 project GeTFun.

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