26th International Conference on Types for Proofs and Programs

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Edited by

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Contents

Preface
Ugo de'Liguoro, Stefano Berardi, and Thorsten Altenkirch 0:vii

Regular Papers

On Model-Theoretic Strong Normalization for Truth-Table Natural Deduction
Andreas Abel 1:1–1:21

Extending Equational Monadic Reasoning with Monad Transformers
Reynald Affeldt and David Nowak 2:1–2:21

Towards a Certified Reference Monitor of the Android 10 Permission System
Guido De Luca and Carlos Luna 3:1–3:18

Coinductive Proof Search for Polarized Logic with Applications to Full Intuitionistic Propositional Logic
José Espírito Santo, Ralph Matthes, and Luís Pinto 4:1–4:24

Synthetic Completeness for a Terminating Seligman-Style Tableau System
Asta Halkjær From 5:1–5:17

Encoding of Predicate Subtyping with Proof Irrelevance in the λΠ-Calculus Modulo Theory
Gabriel Hondet and Frédéric Blanqui 6:1–6:18

Λ-Symsym: An Interactive Tool for Playing with Involutions and Types
Furio Honsell, Marina Lenisa, and Ivan Scagnetto 7:1–7:18

Why Not W?
Jasper Hugunin 8:1–8:9

Subtype Universes
Harry Maclean and Zhaohui Luo 9:1–9:16

Two Applications of Logic Programming to Coq
Matteo Manighetti, Dale Miller, and Alberto Momigliano 10:1–10:19

Duality in Intuitionistic Propositional Logic
Paweł Urzyczyn 11:1–11:10

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Preface

This volume constitutes the post-proceedings of the 26th International Conference on Types for Proofs and Programs, TYPES 2020, that was planned in Turin from the 2nd to the 5th of March 2020. The TYPES meetings are a forum to present new and on-going work in all aspects of type theory and its applications, especially in formalised and computer assisted reasoning and computer programming. The meetings from 1990 to 2008 were annual workshops of a sequence of five EU-funded networking projects. Since 2009, TYPES has been run as an independent conference series. Previous TYPES meetings were held in Antibes (1990), Edinburgh (1991), Båstad (1992), Nijmegen (1993), Båstad (1994), Torino (1995), Aussois (1996), Kloster Irsee (1998), Lökeberg (1999), Durham (2000), Berg en Dal near Nijmegen (2002), Torino (2003), Jouy-en-Josas near Paris (2004), Nottingham (2006), Cividale del Friuli (2007), Torino (2008), Aussois (2009), Warsaw (2010), Bergen (2011), Toulouse (2013), Paris (2014), Tallinn (2015), Novi Sad (2016), Budapest (2017), Braga (2018) and Oslo (2019).

The TYPES areas of interest include, but are not limited to: foundations of type theory and constructive mathematics; applications of type theory; dependently typed programming; industrial uses of type theory technology; meta-theoretic studies of type systems; proof assistants and proof technology; automation in computer-assisted reasoning; links between type theory and functional programming; formalizing mathematics using type theory. The TYPES conferences are of open and informal character. Selection of contributed talks is based on short abstracts; reporting work in progress and work presented or published elsewhere is welcome. A formal post-proceedings volume is prepared after the conference; papers submitted to that volume must represent unpublished work and are subjected to a full peer-review process.

Due to the COVID-19 outbreak, in 2020 the conference did not take place; the abstracts of contributed talks are available from: `https://types2020.di.unito.it/`. Nonetheless the steering committee decided to have TYPES 2020 post-proceedings published. After a new call and a thorough peer-review procedure, 11 submissions could be accepted for publication. We thank all authors and reviewers for their contribution to this volume.

Ugo de'Liguoro, Stefano Berardi and Thorsten Altenkirch, June 2021

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