

Table of Contents

A Modular Hierarchy of Logical Frameworks	1
<i>Robin Adams</i>	
Tailoring Filter Models	17
<i>Fabio Alessi, Franco Barbanera, Mariangiola Dezani-Ciancaglini</i>	
Locales and Locale Expressions in Isabelle/Isar	34
<i>Clemens Ballarin</i>	
Introduction to PAF!, a Proof Assistant for ML Programs Verification ...	51
<i>Sylvain Baro</i>	
A Constructive Proof of Higman's Lemma in Isabelle	66
<i>Stefan Berghofer</i>	
A Core Calculus of Higher-Order Mixins and Classes	83
<i>Lorenzo Bettini, Viviana Bono, Silvia Likavec</i>	
Type Inference for Nested Self Types	99
<i>Viviana Bono, Jerzy Tiuryn, Paweł Urzyczyn</i>	
Inductive Families Need Not Store Their Indices	115
<i>Edwin Brady, Conor McBride, James McKinna</i>	
Modules in Coq Are and Will Be Correct	130
<i>Jacek Chrząszcz</i>	
Rewriting Calculus with Fixpoints:	
Untyped and First-Order Systems	147
<i>Horatiu Cirstea, Luigi Liquori, Benjamin Wack</i>	
First-Order Reasoning in the Calculus of Inductive Constructions	162
<i>Pierre Corbineau</i>	
Higher-Order Linear Ramified Recurrence	178
<i>Ugo Dal Lago, Simone Martini, Luca Roversi</i>	
Confluence and Strong Normalisation	
of the Generalised Multiary λ -Calculus	194
<i>José Espírito Santo, Luís Pinto</i>	
Wellfounded Trees and Dependent Polynomial Functors	210
<i>Nicola Gambino, Martin Hyland</i>	
Classical Proofs, Typed Processes, and Intersection Types	226
<i>Silvia Ghilezan, Pierre Lescanne</i>	

“Wave-Style” Geometry of Interaction Models in Rel Are Graph-Like Lambda-Models	242
<i>Furio Honsell, Marina Lenisa</i>	
Coercions in Hindley-Milner Systems	259
<i>Robert Kießling, Zhaohui Luo</i>	
Combining Incoherent Coercions for Σ -Types	276
<i>Yong Luo, Zhaohui Luo</i>	
Induction and Co-induction in Sequent Calculus	293
<i>Alberto Momigliano, Alwen Tiu</i>	
QArith: Coq Formalisation of Lazy Rational Arithmetic	309
<i>Milad Niqui, Yves Bertot</i>	
Mobility Types in Coq	324
<i>Furio Honsell, Ivan Scagnetto</i>	
Some Algebraic Structures in Lambda-Calculus with Inductive Types	338
<i>Sergej Soloviev, David Chemouil</i>	
A Concurrent Logical Framework: The Propositional Fragment	355
<i>Kevin Watkins, Iliano Cervesato, Frank Pfenning, David Walker</i>	
Formal Proof Sketches	378
<i>Freek Wiedijk</i>	
Applied Type System	394
<i>Hongwei Xi</i>	
Author Index	409

Types for Proofs and Programs

International Workshop, TYPES 2003, Torino, Italy, April

30 - May 4, 2003, Revised Selected Papers

Berardi, S.; Coppo, M.; Damiani, F. (Eds.)

2004, X, 412 p., Softcover

ISBN: 978-3-540-22164-7