

Contents

Introduction	1
Proving Strong Normalization of CC by Modifying Realizability Semantics <i>Thorsten Altenkirch</i>	3
Checking Algorithms for Pure Type Systems <i>L.S. van Benthem Jutting, James McKinna and Randy Pollack</i>	19
Infinite Objects in Type Theory <i>Thierry Coquand</i>	62
Conservativity Between Logics and Typed Lamda Calculi <i>Herman Geuvers</i>	79
Logic of Refinement Types <i>Susumu Hayashi</i>	108
Proof-Checking a Data Link Protocol <i>Leen Helmink, Alex Sellink and Frits Vaandrager</i>	127
Elimination of Extensionality in Martin-Löf Type Theory <i>Martin Hofmann</i>	166
Programming with Streams in Coq – A Case Study: The Sieve of Eratosthenes <i>François Leclerc and Christine Paulin-Mohring</i>	191
The ALF Proof Editor and Its Proof Engine <i>Lena Magnusson and Bengt Nordström</i>	213
Encoding Z-Style Schemas in Type Theory <i>Savi Maharaj</i>	238
The Expressive Power of Structural Operational Semantics with Explicit Assumptions <i>Marino Miculan</i>	263
Developing Certified Programs in the System Coq – The Program Tactic <i>Catherine Parent</i>	291
Closure Under Alpha-Conversion <i>Randy Pollack</i>	313
Machine Deduction <i>Christophe Raffalli</i>	333
Type Theory and the Informal Language of Mathematics <i>Aarne Ranta</i>	352
Semantics for Abstract Clauses <i>David A. Wolfram</i>	366