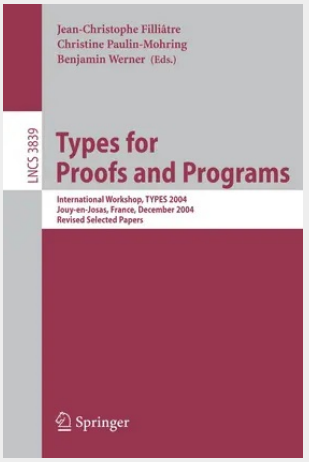
Filliatre / Paulin-Mohring / Werner

Types for Proofs and Programs

International Workshop, TYPES 2004, Jouy-en-Josas, France, December 15-18, 2004, Revised Selected Papers



The 17 revised full papers presented here cover all current issues of formal reasoning and computer programming based on type theory are addressed; in particular languages and computerised tools for reasoning, and applications in several domains such as analysis of programming languages, certified software, formalisation of mathematics and mathematics education.

These proceedings contain a selection of refereed papers presented at or related totheAnnualWorkshopoftheTYPESproject(EUcoordinationaction510996), which was held from December 15 to 18, 2004, in Jouy en Josas, France. Thetopicof thisworkshopwasformalreasoningandcomputer programming basedontypetheory:languagesandcomputerizedtoolsforreasoning,andapp- cations in several domains such as analysis of programming languages, certi?ed software, formalization of mathematics and mathematics education. The workshop was attended by more than 100 researchers and proposed more than 50 presentations. Out of 33 post-workshopsubmitted papers, 17 were selected after a reviewing process. The ?nal decisions were made by the editors. This workshop followed a series of meetings of the TYPES working group funded by the European Union (IST project 29001, ESPRIT Working Group 21900, ESPRIT BRA 6435). The proceedings of these workshop were published in the LNCS series: TYPES 93 Nijmegen, The Netherlands, LNCS 806 TYPES 94 B? astad, Sweden, LNCS 996 TYPES 95 Torino, Italy, LNCS 1158 TYPES 96 Aussois, France, LNCS 1512 TYPES 98 Kloster Irsee, Germany, LNCS 1657 TYPES2000 Durham, United Kingdom, LNCS 2277 TYPES2002 Berg en Dal, The Netherlands, LNCS 2646 TYPES2003 Torino, Italy, LNCS 3085 ESPRIT BRA 6453 was a continuation of ESPRIT Action 3245, Logical Fra- works: Design, Implementation and Experiments. Proceedings for annual me- ings under this action were published by Cambridge University Press in the books Logical Frameworks and Logical Environments, edited by G. Huet and G. Plotkin. We are very grateful to INRIA for supporting the TYPES meeting. We - pecially want to thank Catherine Girard and Catherine Moreau (organization), ChantalGirodon(registration)andLaurentSte?(technicalsupport).

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