

Foreword

The 3rd edition of the Summer School *Theory and Practice of Formal Proofs* was held in Giens (France) from September 2 to 13, 2002 under the sponsorship of the Esprit Project *Computer-Assisted Reasoning based on Type Theory (TYPES)*, the National Institute for Research in Computer Science and Control (INRIA), and the French-Italian University (program Vinci). The aim of this school was to provide the students with the most recent knowledge on formal proofs and train them to the use of proof processing systems.

The program of the school consisted of four parts: the first introduced the field and presented some background knowledge. The second gave an overview of each of the two proof assistants used in the course: the Coq and Isabelle systems, together with some other systems and man-machine interfaces: Plastic, Agda, PhoX, Twelf, PVS, HOL, Proof General and PCoq. The third part presented some advanced topics in the domain. The last part was dedicated to applications of formal proofs in various fields of mathematics and computer science.

We are grateful to the scientists who have contributed to the success of this school by presenting their recent research. We would like also to thank the local committee for an excellent organization of the school.

The programme committee was chaired by J. Despeyroux and also comprised S. Berardi, P. Dybjer, H. Geuvers, Z. Luo, M. Hofmann, and B. Werner.

J. Despeyroux