Foreword

The Summer School *Theory and Practice of Formal Proofs* was held in Giens (France) from August 30 to September 10, 1999 under the sponsorship of the Esprit Working Group *Types for Proofs and Programs*, the National Institute for Research in Computer Science and Control (INRIA), the International Centre for Pure and Applied Mathematics (ICPAM), and *France Telecom*. 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 four proof assistants used in the course: the Agda, Coq, Isabelle and Lego systems. The third part presented some avanced 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 G. Dowek, M. Hofmann, and B. Nordström.

J. Despeyroux