TOOLS is a major international conference and exhibition devoted to the application of object-oriented technology. TOOLS Asia’99 is the thirty-first TOOLS International Conference and will be held in Nanjing, after the successful TOOLS Asia’97 (TOOLS 24) and TOOLS Asia’98 (TOOLS 27) both in Beijing in the past two years. TOOLS Asia’99 sets to continue the commitment to excellence demonstrated by earlier conferences in China, Australia, Europe and the U.S.

We have received more than 130 submissions from the Asia region and the rest of the world. With a strong support from program committee members as well as many external reviewers, the review process of TOOLS Asia’99 has been satisfactory. Each submission has been reviewed by at least two peers, and many by three. We would like to express our appreciation to all who submitted or were involved in this process.

The program committee accepted 65 papers from the submissions. The contribution of TOOLS Asia’99 covers a wide scope of research topics, ranging from fundamental research, tools and environment support, to experience of using object-oriented methodologies to many applications.

We hope you will enjoy the depth and intensity of the contributions included in this proceedings. We believe that TOOLS Asia’99 will be more successful and the TOOLS Asia conference will become a regular meeting for researchers and developers to exchange results and share their experience in the development and application of the object-oriented languages and systems.

Finally we would like to thank Weiquan Zhao, Frank Fursenko, Li Wang, Jingying Wang, Jianying Zhang and Xiancun Yang for their great assistance in the organising process of the conference.

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