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Preface

Performance evaluation, reliability and performability are key factors in the development and improvement of computer systems and computer networks. The 7th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation, held in Vienna in May 1994, was organized in cooperation with both international working groups and national special interest groups on performance evaluation. It was an ideal forum for the presentation of recent results in this area, based on the growing interest in the applicability of new techniques and the further development of existing techniques for performance and reliability analysis. A special focus was put on tools to support these aims in all kinds of applications and environments.

1984 Paris	1989 Palma
1985 Sophia Antipolis	1991 Torino
1987 Paris	1992 Edinburgh

In keeping with the tradition of this series of conferences (see the above list of previous conferences) the international performance evaluation community was invited to submit actual research contributions on modelling techniques and tools for performance and reliability analysis of computer systems. Sixty-six papers were submitted in the response to the call for papers, which was distributed worldwide. The following table gives an overview of the geographical distribution of the submissions, where the assignment to the countries follows the affiliation of the authors.

country	submitted	accepted	invited
Australia	1	0	
Austria	4 1/2	2 1/2	
Belgium	1	0	
France	4	1	
Germany	9 2/3	2 2/3	1
Greece	2	0	
Hungary	1 1/2	0	
Italy	7 2/3	4	
Japan	1	0	
Korea	2	0	
Kuwait	1	0	
Rep. of Trinidad and Tobago	1	0	
Spain	1	1	1
Taiwan	1 1/2	0	
The Netherlands	5	3	
UK	3 2/3	1	
USA	18 1/2	5 5/6	2
total	66	21	4

It was not an easy job for the scientific program committee to select 21 papers for presentation at the conference. These papers, together with the papers of the four invited speakers, are included in this volume.

The papers address important problems with special emphasis on both centralized and distributed/parallel computer systems. The techniques presented for performance analysis of parallel systems reflect the growing need for reliable methods for performance analysis of such systems. The tools presented for the analysis of communication networks and distibuted/parallel systems give an excellent overview of the methods and techniques implemented for performance and reliability investigation of state-of-the-art computer systems. Case studies report on the applicability of and experience with these techniques and tools.

We would like to thank all those persons and institutions who and which have contributed to this conference, first of all the authors of the submitted and invited papers, who have considered this conference to be an appropriate opportunity for the presentation of their scientific work. Furthermore, we thank the members of the scientific programme committee and the external referees for their immense effort in reviewing and selecting the papers under serious time constraints. Last but not least, we would like to thank the sponsoring and cooperating institutions for their support of this event and the staff of the Institute of Applied Computer Science and Information Systems at the University of Vienna and those of the Austrian Computer Society for their devoted work, which was a critical factor for the success of this conference.

Vienna, May 1994

Günter Haring
Gabriele Kotsis

This conference was organized by the

Institute of Applied Computer Science and Information Systems
University of Vienna, Austria

in cooperation with

AICA Working Group on Performance Evaluation, Italy

Asociacion de Tecnicos de Informatica (ATI), Spain

CEPIS (The Council of European Professional Informatics Societies)

Dutch User Group
of Queueing/Performance Analysis Software (QPASS)

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Messung, Modellierung und Bewertung von Rechnersystemen, Germany

IFIP Task Group "Performance of Communication Systems"

IFIP Working Group 7.3
(Computer System Modelling)

IFIP Working Group 10.3
(Concurrent Systems)

IFIP Working Group 10.4
(Dependable Computing and Fault Tolerance)

OCG (Austrian Computer Society)

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