

Preface

IP is clearly emerging as the networking paradigm for the integration of the traffic flows generated by a variety of new applications (IP telephony, multimedia multicasting, e-business, ...), whose performance requirements may be extremely different. This situation has generated a great interest in the development of techniques for the provision of quality of service (QoS) guarantees in IP networks. Two proposals have already emerged from the IETF groups IntServ and Diff-Serv, but research and experiments are continuing, in order to identify the most effective architectures and protocols. The Italian Ministry for University and Scientific Research has been funding a research program on these topics, named “Techniques for quality of service guarantees in multiservice telecommunication networks” or MQOS for short, in the years 1999 and 2000.

At the end of its activity, the MQOS program has organized in Rome (Italy) in January 2001 the *International Workshop on QoS in Multiservice IP Networks* (QoS-IP 2001), for the presentation of high-quality recent research results on QoS in IP networks, and the dissemination of the most relevant research results obtained within the MQOS program.

This volume of the LNCS series contains the proceedings of QoS-IP 2001, including 2 invited papers as well as 26 papers selected from an open call. These very high quality papers provide a clear view of the state of the art of the research in the field of quality of service provisioning in multiservice IP networks, and we hope that these proceedings will be a valuable reference for years to come.

The preparation of this volume has benefitted from the hard work of many people: the MQOS researchers, the paper authors, the reviewers, and the LNCS staff, Alfred Hofmann in particular. We wish to thank all of them for their cooperation.

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QoS-IP 2001 is organized by the MQOS Program at University of Rome - La Sapienza.

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