Evolutionary Trends of the Internet


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Preface

In recent years the Internet has seen a tremendous growth in terms of amount of traffic and number of users. At present, the primary technical objective is to provide advanced IP networking services to support an evolving set of new applications like, for example, IP-telephony, video teleconferencing, Web TV, multimedia retrieval, remote access to and control of laboratory equipment and instruments. To achieve this objective, the Internet must move from a best-effort paradigm without service differentiation to one where specific Quality of Service (QoS) requirements can be met for different service classes in terms of bandwidth, delay, and delay jitter. Another crucial goal is the ubiquitous deployment of advanced services over the global network resulting from the effective integration of wireless and satellite segments into the future Internet.

Although many researchers and engineers around the world have been working on these challenging issues, several problems remain open.

The Tyrrhenian International Workshop on Digital Communications 2001, which focused on the Evolutionary Trends of the Internet, was conceived as a highly selective forum aimed at covering diverse aspects of the next generation of IP networks.

The members of the Technical Program Committee of the workshop concentrated their efforts on identifying a set of topics that, although far from being exhaustive, provide a sufficiently wide coverage of the current research challenges in the field.

Eight major areas were envisioned, namely WDM Technologies for the Next Generation Internet, Mobile and Wireless Internet Access, QoS in the Next Generation Internet, Multicast and Routing in IP Networks, Multimedia Services over the Internet, Performance Modeling and Measurement of Internet Protocols, Dynamic Service Management, Source Encoding and Internet Applications.

With the invaluable help of the session organizers, 46 papers, partly invited and partly selected on an open-call basis, were collected for presentation at the workshop and publication in this book. We believe that the contributions contained in these proceedings represent a timely and high-quality outlook on the state of the art of research in the field of multiservice IP networks, and we hope they may be of use for further investigation in this challenging area.

September 2001

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