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Broadband Communications, Networks, and Systems

7th International ICST Conference
BROADNETS 2010
Athens, Greece, October 25–27, 2010
Revised Selected Papers

 Springer

Preface

This volume contains the proceedings of the 7th International ICST Conference on Broadband Communications, Networks, and Systems (Broadnets 2010), which was held in Athens, Greece, during October 18–20, 2010. The Broadnets conference is an international event focusing on broadband communications, networks, and systems and covers the entire gamut of next-generation networks, communications systems, applications, and services. This series of conferences has been held annually since 2004 in various US and European countries and covers the fields of optical, wireless, and Internet systems and networks and related areas.

In 2010, the Broadnets conference was organized by the Athens Information Technology and the University of Patras, Greece. The conference was held in Athens, Greece, where the participants had the opportunity to enjoy the technical program, as well as the rich cultural heritage of Greece. The conference venue location close to the historical center of Athens was perfect for allowing conference participants to discover the city and its history.

The Broadnets conference was divided into three tracks (Optical, Wireless, and Internet) and 29 papers were presented in these tracks (22 accepted papers and 7 invited papers authored by worldwide renowned scholars). The selection of the accepted papers was made after a thorough peer-review process, where each submission was evaluated by at least three reviewers. The submitted papers were authored by peer scholars coming from 20 different countries. In addition to the regular papers, the technical program featured a keynote lecture by Socrates Katsikas, the General Secretary of Telecommunications at the Greek Ministry of Infrastructures, Transportation, and Networks, and five plenary talks by distinguished members of the Greek academic community and telecommunications industry. Moreover, the first day of the conference was devoted to four workshops totalling 22 talks and spanning various up-to-date research areas. The workshop themes were as follows: “Cross-Layer Algorithms and Protocols for Optical Networks,” “Multimode Wireless Access Networks,” “Opportunities and Challenges in the Context of Next-Generation Optical Access Networks,” and “Architecture, Protocols and Algorithms for a Sustainable Internet.”

It is our pleasure to express our gratitude to everybody that contributed to the success of Broadnets 2010. In particular, we thank the members of the Broadnets Steering Committee for entrusting us with the organization of the conference. We would also like to express our sincere gratitude to the members of the Program Committee, all the reviewers, as well as the members of the

Organizing Committee, and the National Organizing Committee for their assistance in the organization of the conference. We would also like to thank the publisher, Springer, for cooperation in publishing the proceedings in the *Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICST)* series. Finally, we thank all the authors who contributed to this volume for sharing their new ideas and results with the rest of the community.

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