

Fernando Boavida Thomas Plagemann
Burkhard Stiller Cedric Westphal
Edmundo Monteiro (Eds.)

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NETWORKING 2006

Networking Technologies, Services,
and Protocols; Performance of Computer
and Communication Networks; Mobile
and Wireless Communications Systems

5th International IFIP-TC6 Networking Conference
Coimbra, Portugal, May 2006
Proceedings



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Preface

Networking 2006 was organized by the University of Coimbra, Portugal, and it was the fifth event in a series of International Conferences on Networking sponsored by the IFIP Technical Committee on Communication Systems (TC 6). Previous events were held in Paris (France) in 2000, Pisa (Italy) in 2002, Athens (Greece) in 2004, and Waterloo (Canada) in 2005.

Networking 2006 brought together active and proficient members of the networking community, from both academia and industry, thus contributing to scientific, strategic, and practical advances in the broad and fast-evolving field of communications.

The conference comprised highly technical sessions organized thematically, keynote talks, tutorials offered by experts, as well as workshops and panel discussions on topical themes. Plenary sessions with keynote talks opened the daily sessions, which covered Networking Technologies, Services and Protocols, Performance of Computer and Communication Networks, and Mobile and Wireless Communications Systems.

The Networking 2006 call for papers attracted 440 submissions from 44 different countries in Asia, Australia, Europe, North America, and South America. These were subject to thorough review work by the Program Committee members and additional reviewers. The selection process was finalized in a Technical Program Committee meeting held in Lisbon on January 23, 2006.

A high-quality selection of 88 full papers and 31 posters, organized into 24 regular sessions and 1 poster session, made up the Networking 2006 main technical program, which covered wireless networks, mobile ad-hoc networks, sensor networks, optical networks, peer-to-peer topology and location awareness, mobility, traffic engineering, routing, transport protocols, monitoring and measurements, resource management, quality of service, multimedia, and caching and content management. The technical program was complemented by three keynote speeches, by Monique Morrow (Cisco Systems, USA), Costas Courcoubetis (Athens University of Economics and Business, Greece) and Muriel Médard (MIT, USA), on next-generation networking, peer-to-peer systems, and network coding, respectively.

In addition to the main technical program, the day preceding the conference was dedicated to six excellent tutorials on BGP - Interdomain Routing and Virtual Private Networks, IP-Oriented QoS in the Next Generation Networks: Application to Wireless Networks, Extensible IP Signaling: Architecture, Protocols and Practice, Roadmap to Cross-Layer and Cross-System Optimization for B3G, Peer-to-Peer Networking, and User-Directed and QoS-Driven Routing: Theoretical and Experimental Considerations, respectively given by Olivier Bonaventure (Catholic University of Louvain, Belgium), Pascal Lorenz (University of Haute-Alsace, France), Xiaoming Fu and Hannes Tschofenig (University of Goettingen and Siemens, Germany), George Kormentzas and Charalabos Skianis (University of the Aegean Karlovassi and NCSR 'D', Greece), Raouf Boutaba (University of Waterloo, Canada), and Erol Gelenbe (University of Central Florida, Orlando, USA).

The final day of Networking 2006 was dedicated to five one-day workshops on the following topics: Security and Privacy in Mobile and Wireless Networking, Content Caching and Distribution Networks, Performance Control in Wireless Sensor Networks, Towards the QoS Internet, and Next-Generation Networking Middleware.

We wish to record our appreciation of the efforts of many people in bringing about the Networking 2006 conference: to all the authors that submitted their papers to the conference, regretting that it was not possible to accept more papers; to the Program Committee and to all associated reviewers; to our sponsors and supporting institutions. Finally, we would like to thank all the people that helped us at the University of Coimbra, namely, Márcia Espírito Santo, Paula Mano, and all the volunteers from the Laboratory of Communications and Telematics.

May 2006

Fernando Boavida
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