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NETWORKING 2010

9th International IFIP TC 6 Networking Conference
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Proceedings

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Preface

This book constitutes the refereed proceedings of the 9th IFIP-TC6 Networking Conference, Networking 2010.

Papers were solicited in three broad topic areas: applications and services, network technologies, and internet design. All papers were considered on their merits by a unified Technical Program Committee (TPC); there was no attempt to enforce a quota among topic areas. We believe the resulting program is an excellent representation of the breadth of recent advances in networking research.

This year, the conference received 101 full paper submissions from 23 countries on five continents, reflecting a strong diversity in the networking community. Similarly, the 92 members of the TPC are from 21 countries and include a mix of academic, industry, and governmental affiliations.

The TPC members, aided by some 50 external reviewers, provided a total of 470 reviews and follow-up discussions totaling more than 200 messages. The final selections were made at a TPC meeting hosted by Columbia University in New York City, with both in-person and remote participation. In total, authors of accepted papers have academic and industry affiliations in 15 countries.

We finally selected 24 papers for presentation during the conference technical sessions. A small number of papers were assigned a shepherd from the TPC to assist in paper revision. These statistics represent an acceptance rate of just under 24%, comparable to that of previous years.

The TPC also identified several papers that reflect particularly promising early results; these papers were selected for presentation as work-in-progress papers and are identified as such in the proceedings.

The Networking 2010 program would not have been possible without the contribution of many people. We would like to thank the TPC members and all the reviewers for their careful and conscientious work. A special thanks to TPC members who gave additional time to shepherding, as well as to the (anonymous) subset of the TPC who took on the challenge of selecting the winner of the Best Paper Award. Not least, we would like to thank all of the authors who submitted their work to Networking 2010 for their interest and effort. It has been our privilege to collaborate with you in creating this program.

May 2010

Dan Rubenstein
Mark Crovella
Laura Feeney
S.V. Raghavan

Message from the General Chairman

The 9th International IFIP-TC 6 Networking Conference was organized and hosted by The Indian Institute of Technology Madras in collaboration with the Computer Society of India, Chennai Chapter. Networking 2010 once again brought together members of the networking community from both academia and industry to revel in the recent advances, to explore the unexplored in the broad and fast-evolving field of telecommunications and to highlight key issues, identify trends and turn visions to reality.

IFIP Networking is known for its high-quality papers from various networking research communities. A total of 101 papers were submitted to the conference from six out of the seven continents and after many rigorous reviews and much scanning only 24 regular and 9 work-in-progress papers were accepted. The program covered a variety of research topics in the area of P2P and overlay networks, performance measurement, quality of service, ad hoc and sensor networks, wireless networks, addressing and routing and applications and services.

The Indian Institute of Technology, Madras, incidentally a reserve forest for Black Bucks (a rare species of deer) is one of the premier institutes of India. Its state-of-the-art facilities, education system and the co-existence of two different species is a sheer joy to experience. Chennai (Earlier Madras) is a city of culture and heritage. The capital city of Tamilnadu has its roots deeply set in culture, and nurtures growth with technology. It is one of the largest and oldest metropolitan cities in India. This beach side city is famous for its old and beautifully architected temples. The once mystic land of snake charmers and astrology has found its true identity as a nest of technology and science and no better way to reflect it but Networking 2010.

In closing we would like to thank the members of the Program Committee and the army of reviewers that helped us in selecting the best papers for publication.

May 2010

S.V. Raghavan

Organization

IFIP Networking-2010 was organized by the Indian Institute of Technology Madras and Computer Society of India, Chennai Chapter in cooperation with IFIP TC6.

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