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Distributed Computing and Networking

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Proceedings

Shrisha Rao Mainak Chatterjee
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Message from the General Chairs

The 2008 International Conference on Distributed Computing and Networking (ICDCN 2008) was the ninth event in this series. This event, formerly known as IWDC (International Workshop on Distributed Computing), became an international conference in 2007, and it was renamed International Conference on Distributed Computing and Networking to remark the growth in scope, quality and visibility and the increasing relevance of networking research. Over the years, ICDCN has become a leading forum for disseminating the latest research results in distributed computing and networks. This year's conference brought together worldwide researchers in Kolkata (India), during January 5–8, 2008, to present and discuss a wide variety of aspects such as networks, systems, algorithms and applications.

The program of the conference lasted four days and included, in addition to a high-quality technical program, four tutorials giving young researchers and students an excellent opportunity to learn about the hottest research areas in wireless networking, complex systems and high-performance computing.

A conference of this magnitude would not have been possible without the hard and excellent work of all the members of the Organizing Committee. Our special thanks are due to Prasad Jayanti and C. Siva Ram Murthy (Program Co-chairs) and to Mainak Chatterjee (Program Vice Chair), for coordinating and leading the effort of the Program Committee culminating in an excellent technical program. We are grateful to the Keynote Chair, Sajal K. Das, for arranging three high-quality keynote talks by eminent leaders in the field: Roger Wattenhofer (ETH Zurich), Jie Wu (NSF and Florida Atlantic University), and Sankar Kumar Pal (Indian Statistical Institute, Kolkata). We would also like to express our appreciation to the Tutorial Co-chairs, Sajal K. Das and Sarmistha Neogy, and to the Panel Chair, Kalyan Basu.

We are indebted to all the other members of the Organizing Committee for their excellent work. Atal Chaudhuri (Organizing Chair) and Subhadip Basu and Nibaran Das (Organizing Vice Chairs) coordinated the local arrangements. Shrisha Rao and Sanjoy K. Saha (Publication Co-chairs) managed the publication of the conference proceedings. We also take this opportunity to acknowledge the contribution to the conference's success of the Registration Chair, Mridul S. Barik, and of the Finance Chair Salil K. Sanyal.

Last but not least, we extend our heartfelt thanks to the authors, reviewers and participants of the conference, for their vital contribution to the success of this conference.

January 2008

Marco Conti
Pradip K. Das
Nicola Santoro

Message from the Technical Program Chairs

Welcome to the Proceedings of the Ninth International Conference on Distributed Computing and Networking (ICDCN) 2008! This annual event started off nine years ago as a small workshop for distributed computing researchers in India, and has gradually matured into a true international conference, while simultaneously widening its scope to cover most aspects of distributed computing and networking.

We received 185 submissions from all over the world, including Australia, Bangladesh, Brazil, Canada, China, France, Greece, Iran, Israel, Italy, Malaysia, Poland, Singapore, South Africa, South Korea, Spain, Switzerland, Tunisia, United Kingdom, and United States, besides India, the host country. The submissions were read and evaluated by the Program Committee, which consisted of 25 members for the Distributed Computing Track and 34 members for the Networking Track, with the additional help of external reviewers. The Program Committee selected 30 regular papers and 27 short papers for inclusion in the proceedings and presentation at the conference.

We were fortunate to have several distinguished scientists as keynote and invited speakers. Roger Wattenhofer (ETH, Zurich) and Jie Wu (Florida Atlantic University and NSF) delivered the keynote address, and Sudhir Dhawan (IBM India) and Sushil Prasad (Georgia State University) were the invited speakers. Sankar Pal from the Indian Statistical Institute, Kolkata, delivered the A.K. Choudhury Memorial talk. By inviting these speakers to contribute an article to the proceedings, we ensured that most of the content of these valuable talks appeared in print in this volume.

The main conference program was preceded by a day of tutorial presentations. We had four tutorials, presented by Sunghyun Choi (Seoul National University) on “High-Speed WLAN and Wireless Mesh,” Vipin Chaudhary and John Paul Walters (University of Buffalo) on “Fault-Tolerant High Performance Computing,” Romit Roy Choudhury (Duke University) on “Exploiting Smart Antennas,” and Niloy Ganguly (Indian Institute of Technology, Kharagpur) on “Complex Network Theory.”

We thank all authors for their interest in ICDCN 2008, and the Program Committee members and external reviewers for their careful reviews despite a tight schedule. We used the EasyChair system to handle the submissions, reviews, discussions, and notifications. The system was easy to use and very helpful.

We hope that you will find the ICDCN 2008 proceedings to be technically rewarding.

January 2008

Mainak Chatterjee
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