Message from the General Co-chair

It is our honor to welcome you to the proceedings of TridentCom 2011, the International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities. This year’s event was held in Shanghai, China.

Telecommunication infrastructures play a vital role in modern society. The advancements in the range of network service offerings, their performance, quality of service, security, and ubiquity are relentless, despite global economy fluctuations. The demand for high-bandwidth network infrastructures is continuously growing within both academic and industrial sectors.

The goal of TridentCom is to create a forum where telecommunication networks researchers, vendors, providers and users can exchange ideas on past experience, requirements, needs, and visions for future establishment of such infrastructures. It showcases experimental activities, such as testing, verification, integration, measurement, and deployment, which are pivotal to achieving next-generation communications.

It was the first time that TridentCom was held in Asia, and was devoted to the theme “To Be One—Federation of Global Testbeds.” We had the pleasure of hearing from notable keynote speakers from around the world. Specifically, keynote addresses were given by Max Ott from Australia, Manu Gosain from the USA, and Anastasius Gavras from Germany. Additionally, an exciting panel with Akihiro Nakao from Japan, Jun Kyun Choi from Korea, Li Yi from China and Wei-Yun Yau from Singapore was held, focusing on “Asian Testbed facilities.” Apart from the high-level keynote speakers and panelists, TridentCom 2011 also featured groundbreaking paper presentations and special sessions on advanced topics, allowing significant networking opportunities between academia and industry. The technical program provided academic and industrial researchers, practitioners, and students with a forum to explore existing and planned testbed concepts, infrastructures, and tools to address the research and business challenges of the ICT domain. Finally, we combined a half-day tutorial with this program. We are very grateful to our conference sponsor, the National Engineering Research Center for Broadband Network and Applications (BNC), that helped us significantly.

Jiangxing Wu
Message from the Technical Program Committee  
Co-chairs

On behalf of the Technical Program Committee (TPC), it is our pleasure to welcome you to the proceedings of TridentCom 2011—The 7th International ICST Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities! This was the first time that this conference was held in Shanghai, China.

The technical program included 26 papers/talks covering advanced issues on testbeds and experimentation with information and communication technologies. Four keynote speakers, four panelists and 28 researchers from Europe, North America, Australia, China, Japan, Korea and Singapore were invited to present their work and exchange ideas at the conference.

This year we received paper submissions from Europe, North America, Australia, China, Japan, Korea and Singapore. Each paper went through a detailed review process. Based on the reviews, 26 papers were accepted that cover various topics including network and resource virtualization, federation and large-scale testbeds, management provisioning, tools, sensor testbeds and experimental-driven research. In addition to the 26 accepted papers the conference featured two invited papers. The papers were grouped into eight sessions, with four of them being plenary.

In this year’s TridentCom we hosted an exciting poster and demo section with several interesting posters and demos that presented the latest achievements in the field of testbeds and experimentation.

The final technical program was a result of the dedication and hard work of many people. We are most grateful to the authors who submitted their work to TridentCom 2011, all of the Chairs, as well as a number of external reviewers, who greatly contributed to the success of the TridentCom 2011 review process. Special thanks also go to the Conference Steering Committee and the General Chairs for their guidance as well as the local Organizing Committee members in Shanghai for their help in making our work easier and enjoyable.

We hope that you find the proceedings of TridentCom 2011 interesting and enjoyable.

Thanasis Korakis  
Hongbin Li  
Phuoc Tran-Gia  
Hong-Shik Park
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