

AICT 2012

Forward

The Eighth Advanced International Conference on Telecommunications (AICT 2012) held on May 27 - June 1, 2012 - Stuttgart, Germany, covered a variety of challenging telecommunication topics ranging from background fields like signals, traffic, coding, communication basics up to large communication systems and networks, fixed, mobile and integrated, etc. Applications, services, system and network management issues also received significant attention.

We are witnessing many technological paradigm shifts imposed by the complexity induced by the notions of fully shared resources, cooperative work, and resource availability. P2P, GRID, Clusters, Web Services, Delay Tolerant Networks, Service/Resource identification and localization illustrate aspects where some components and/or services expose features that are neither stable nor fully guaranteed. Examples of technologies exposing similar behavior are WiFi, WiMax, WideBand, UWB, ZigBee, MBWA and others.

Management aspects related to autonomic and adaptive management includes the entire arsenal of self-ilities. Autonomic Computing, On-Demand Networks and Utility Computing together with Adaptive Management and Self-Management Applications collocating with classical networks management represent other categories of behavior dealing with the paradigm of partial and intermittent resources.

E-learning refers to on-line learning delivered over the World Wide Web via the public Internet or the private, corporate intranet. The conference considered how, when and where e-learning helps to solve the training needs, what the challenges of creating and managing vast amounts of e-learning are, how the upcoming IT technologies influence e-learning and how the Web based educational materials should be developed to meet the demands of the long-life, motivated and very often self-directed students.

The conference also addressed teletraffic modeling and management. It covered traffic theory, traffic control and QoS, performance evaluation methods, network design and optimization of wired and wireless networks, and simulation methodology for communication networks.

We take this opportunity to thank all the members of the AICT 2012 Technical Program Committee as well as the numerous reviewers. The creation of such a broad and high-quality conference program would not have been possible without their involvement. We also kindly thank all the authors who dedicated much of their time and efforts to

contribute to the AICT 2012. We truly believe that, thanks to all these efforts, the final conference program consists of top quality contributions.

This event could also not have been a reality without the support of many individuals, organizations, and sponsors. We are grateful to the members of the AICT 2012 organizing committee for their help in handling the logistics and for their work to make this professional meeting a success.

We hope that AICT 2012 was a successful international forum for the exchange of ideas and results between academia and industry and for the promotion of progress in telecommunications.

We are convinced that the participants found the event useful and communications very open. The beautiful city of Stuttgart surely provided a pleasant environment during the conference and we hope you had a chance to visit the surroundings.

AICT 2012 Chairs

Tulin Atmaca, Telecom SudParis, France

Eugen Borcoci, University Politehncia Bucharest, Romania

Michael D. Logothetis, University of Patras, Greece

Go Hasegawa, Osaka University, Japan

Reijo Savola, VTT Technical Research Centre of Finland - Oulu, Finland

Michael Massoth, University of Applied Sciences - Darmstadt, Germany

AICT Special Area Chairs

TELET

Mariusz Glabowski, Poznan University of Technology, Poland

Denis Collange, Orange Labs - Sophia Antipolis, France

Optical

Djafar K. Mynbaev, New York City College of Technology - Brooklyn, USA