

# INTERNET 2012

## Foreword

The Fourth International Conference on Evolving Internet [INTERNET 2012], held between June 24-29, 2012 - Venice, Italy, dealt with challenges raised by evolving Internet making use of the progress in different advanced mechanisms and theoretical foundations. The gap analysis aimed at mechanisms and features concerning the Internet itself, as well as special applications for software defined radio networks, wireless networks, sensor networks, or Internet data streaming and mining.

Originally designed in the spirit of interchange between scientists, the Internet reached a status where large-scale technical limitations impose rethinking its fundamentals. This refers to design aspects (flexibility, scalability, etc.), technical aspects (networking, routing, traffic, address limitation, etc), as well as economics (new business models, cost sharing, ownership, etc.). Evolving Internet poses architectural, design, and deployment challenges in terms of performance prediction, monitoring and control, admission control, extendibility, stability, resilience, delay-tolerance, and interworking with the existing infrastructures or with specialized networks.

INTERNET 2012 also featured the following workshop:

-IHTIAP 2012, The First Workshop on Information Hiding Techniques for Internet Anonymity and Privacy

We take here the opportunity to warmly thank all the members of the INTERNET 2012 Technical Program Committee, as well as the numerous reviewers. The creation of such a 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 INTERNET 2012. We truly believe that, thanks to all these efforts, the final conference program consisted of top quality contributions.

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

We hope that INTERNET 2012 was a successful international forum for the exchange of ideas and results between academia and industry and for the promotion of progress in the field of the evolving internet.

We are convinced that the participants found the event useful and communications very open. We also hope the attendees enjoyed the charm of Venice, Italy.

### **INTERNET 2012 Chairs:**

Jaime Lloret Mauri, Polytechnic University of Valencia, Spain

Eugen Borcoci, University "Politehnica" Bucharest, Romania

Abdulrahman Yarali, Murray State University, USA

Mark Yampolskiy, Leibniz-Rechenzentrum (LRZ) - Garching, Germany  
Vladimir Zaborovsky, Technical University - Saint-Petersburg, Russia  
Massimo Villari, University of Messina, Italy  
Dirceu Cavendish, Kyushu Institute of Technology, Japan  
Pascal Lorenz, University of Haute-Alsace, France  
Petre Dini, Concordia University, Canada / China Space Agency Center, China  
Jacques M. Bahi, FEMTO-ST, University of Franche-Comté, France  
Christophe Guyeux, FEMTO-ST, University of Franche-Comté France  
Jean-François Couchot, FEMTO-ST, University of Franche-Comté, France