

# ICCGI 2011

## Foreword

The Sixth International Multi-Conference on Computing in the Global Information Technology [ICCGI 2011], held between June 19 and 24, 2011, in Luxembourg, continued a series of international events covering a large spectrum of topics related to global knowledge concerning computation, technologies, mechanisms, cognitive patterns, thinking, communications, user-centric approaches, nanotechnologies, and advanced networking and systems. The conference topics focus on challenging aspects in the next generation of information technology and communications related to the computing paradigms (mobile computing, database computing, GRID computing, multi-agent computing, autonomic computing, evolutionary computation) and communication and networking and telecommunications technologies (mobility, networking, bio-technologies, autonomous systems, image processing, Internet and web technologies), towards secure, self-defendable, autonomous, privacy-safe, and context-aware scalable systems.

This conference intended to expose the scientists to the latest developments covering a variety of complementary topics, aiming to enhance one's understanding of the overall picture of computing in the global information technology.

The integration and adoption of IPv6, also known as the Next Generation of the Internet Protocol, is happening throughout the World at this very moment. To maintain global competitiveness, governments are mandating, encouraging or actively supporting the adoption of IPv6 to prepare their respective economies for the future communication infrastructures. Business organizations are increasingly mindful of the IPv4 address space depletion and see within IPv6 a way to solve pressing technical problems while IPv6 technology continues to evolve beyond IPv4 capabilities. Communications equipment manufacturers and applications developers are actively integrating IPv6 in their products based on market demands.

IPv6 continues to represent a fertile area of technology innovation and investigation. IPv6 is opening the way to new successful research projects. Leading edge Internet Service Providers are guiding the way to a new kind of Internet where any-to-any reachability is not a vivid dream but a notion of reality in production IPv6 networks that have been commercially deployed. National Research and Educational Networks together with internationally known hardware vendors, Service Providers and commercial enterprises have generated a great amount of expertise in designing, deploying and operating IPv6 networks and services. This knowledge can be leveraged to accelerate the deployment of the protocol worldwide.

We take here the opportunity to warmly thank all the members of the ICCGI 2011 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 ICCGI 2011. 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 ICCGI 2011 organizing committee for their help in handling the logistics and for their work to make this professional meeting a success.

We hope that ICCGI 2011 was a successful international forum for the exchange of ideas and results between academia and industry and for the promotion of progress in the area of computing in the global information technology.

We are convinced that the participants found the event useful and communications very open. We also hope the attendees enjoyed the historic charm Luxembourg.

**ICCGI 2011 Chairs:**

Ani Calinescu, Oxford University, UK  
Emmanuel Chaput, ENSEEIHT / IRIT-CNRS, France  
Tibor Gyires, Illinois State University, USA  
Jean Johnson, The Inclusion Trust - Takeley, UK  
Hermann Kaindl, TU-Wien, Austria  
Yasushi Kambayashi, Nippon Institute of Technology, Japan  
Constandinos Mavromoustakis, University of Nicosia, Cyprus  
Mary Luz Mouronte López, Ericsson S.A., Spain  
Krishna Murthy, HCL America, USA  
Marius Minea, University Politehnica of Bucharest, Romania  
Constantin Paleologu, University Politehnica of Bucharest, Romania  
Liviu Panait, Google Inc., USA  
Amir Razavi, University of Surrey - Guildford, UK  
José Rouillard, Université Lille Nord, France  
John Terzakis, Intel, USA  
Luc Vouligny, Institut de Recherche d'Hydro-Québec - Varennes, Canada