

**Highlights:**

- The event is endorsed by the European Alliance for Innovation, a leading community-based organization devoted to the advancement of innovation in the field of ICT
- All accepted papers will be published by Springer and made available through SpringerLink Digital Library, one of the world's largest scientific libraries
- Proceedings will be submitted for indexing by Google Scholar, ISI, EI Compendex, Scopus and many more

**Scope:**

Quantum computing offers fundamentally new solutions in the field of computer science, extends the possibilities to a level that cannot be imagined in classical communication systems. In the near future, quantum communications and quantum networking will revolutionize traditional communication and networking methods. The Second International ICST Conference on Quantum Communication and Quantum Networking - QuantumComm2012 with the slogan of 'The Improving Quantum World' - invites submission of unpublished research papers with novel contributions in the field of quantum computing.

**Topics:**

Topics of interest include, but are not limited to, the following:

- Quantum Communications
- Quantum Cryptography
- Quantum Interferometry and Quantum Sensors
- Entanglement as a Resource of Quantum Technology
- Quantum Electron Transport and Nanophotonics Devices
- Hybrid Quantum Systems: Connecting Photons – Atoms – Solid State Devices
- Superconducting Nanoscale Devices in Quantum Communication
- Nanomechanical Quantum Systems and Their Interaction with Nonclassical Light
- Quantum Processors and Computers Design

**Publications:**

All submitted contributions will undergo a double-blind peer review. Accepted papers will be presented at the conference and published in the QuantumComm Conference Proceedings and by Springer-Verlag in the Lecture Notes of ICST (LNICST). The proceedings will be available both in book form and via the SpringerLink digital library, which is one of the largest digital libraries online and covers a variety of scientific disciplines.

**Paper Submission:**

All authors are required to submit an extended abstract of their presentation by the deadline in English. The extended abstracts are limited to 2 pages. The deadline for uploading the extended abstract with 2 pages is Jun 1, 2012. Papers should be uploaded using the ICST Assyst Proceedings system, and have to comply with the Springer LNICST format.

Please visit the conference website (<http://www.quantumcomm.org/submission.html>) for detailed instructions.

**Contacts:**

For further information please contact the General Chair - Prof. Sandor Imre, Budapest University of Technology and Economics - and the organizers at [qc2012@hit.bme.hu](mailto:qc2012@hit.bme.hu).

**IMPORTANT DATES**

Paper Submission Deadline:  
**1st June 2012**  
Notification of Acceptance  
deadline:  
**13th July 2012**  
Camera Ready deadline: **31st  
August 2012**  
Conference Date:  
**8th - 11th October 2012**

**Committee:****General Chair:**

Prof. Sandor Imre, Budapest University  
of Technology and Economics, Hungary

**Technical Program Co-Chairs:**

Prof. Barnabás Apagyí, Budapest  
University of Technology and Economics,  
Hungary

Katalin Friedl, Budapest University of  
Technology and Economics, Hungary

**Local and Web Chairs:**

Laszlo Bacsardi, Budapest University of  
Technology and Economics, Hungary  
Laszlo Gyongyosi, Budapest University of  
Technology and Economics, Hungary

**Workshops Chairs:**

Levente Buttyán, Budapest University of  
Technology and Economics, Hungary

**Publicity Chairs:**

Prof. Jaewan Kim, Korea Institute for  
Advanced Study, Republic of Korea

**About EAI**

*The European Alliance for Innovation is a dynamic eco-system for fostering ICT enabled innovation to improve European competitiveness and to benefit society. EAI uses open e-platforms to inspire grassroots collaboration among all relevant actors, from organizations to individuals, to stimulate community driven innovation to its institutional and individual members worldwide. Join the innovation community at [www.eai.eu](http://www.eai.eu)*