

Call for Contributions for Workshop on

## Quantum Communications and Information Technology (QCIT'16)

[http://www-mobile.ecs.soton.ac.uk/events/GC\\_16\\_QCIT\\_CFP.htm](http://www-mobile.ecs.soton.ac.uk/events/GC_16_QCIT_CFP.htm)

At IEEE Globecom'16, Washington, DC, USA, December, 8, 2016

<http://globecom2016.ieee-globecom.org/>

The Quantum Communications and Information Technology (QCIT'16) workshop is dedicated to explore the new opportunities for application of communications theory and technologies to quantum technology. Over the last decade, a variety of physical quantum computing devices has been demonstrated and used for fundamental experiments in laboratories. Results confirm the feasibility of practical applications in quantum communications and quantum information processing related fields. Some specific applications, such as quantum key distribution are already close to the market. However, the step from a quantum technology based device to a real system carrying out a communications or information processing task has not been completed at the time of writing.

Come and join this workshop to connect with people from academia and industry to discuss and progress all the theory, technology and applications and to exchange ideas conceived for progressing the engineering and development of this exciting new field.

### Topics include (but are not limited to) the following

- RF technology, components and control
- Coding theory
- Communications and information theory
- Photonic communications technology
- Interconnection and complexity theory
- Error correction
- RF based programming and algorithms
- Modeling and simulation
- Systems architecture
- Optimized algorithms and applications
- Experimental results
- Control instrumentation
- Signal processing

### Submission info for camera-ready manuscripts

Original and unpublished regular papers are solicited from the above-mentioned areas. Regular papers have a length of 4 to 6 pages with an optional payable 7th page, they get peer reviewed and published in the workshop proceedings and after presentation in the IEEE Xplore. Templates for the manuscripts can be downloaded from:

[http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)

The formatted manuscript should be electronically submitted as pdf via EDAS:

<http://edas.info/N22562>

Further information is available in the Globecom 2016 webpages:

<http://globecom2016.ieee-globecom.org>

### Important dates

- Submission due date: July, 1, 2016
- Notification date: September, 1, 2016
- Final due date: October, 1, 2016
- Workshop date: December, 8, 2016

### Workshop organizers

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### Sponsored by

IEEE Communications Society (ComSoc) - <http://www.comsoc.org>

Quantum Information Processing and Communication in Europe (QUROPE) - <http://qurope.eu/>

### Join the IEEE Interest Group on Quantum Communications and Information Technology (QCIT)

Please send an email to list@comsoc.org using your own email account. In the body of your message, type "JOIN QCIT" to join QCIT list.