

Title:

Quantum Information and Information Security

Abstract:

In recent decades, with the successive advent of quantum computers, quantum satellites and large quantum secure communication networks, human society has entered the age of quantum information. In this circumstance, the research on quantum cryptography, quantum secure communications, quantum information processing and the related integration of classical information security technology and quantum information has become a very important research field in the development of information security technology. This workshop aims to bring together researchers from different paradigms solving quantum information and information security problems under a unified platform for sharing their work and exchanging ideas.

Scope and Topics:

The objective of this workshop is to invite authors to submit original manuscripts that demonstrate and explore current advances in all aspects of quantum information and information security. The workshop solicits novel papers on a broad range of topics, including but not limited to:

- ✧ Quantum secure communications
- ✧ Anti quantum computing cryptography
- ✧ Quantum information processing
- ✧ Quantum steganography
- ✧ Quantum watermarking
- ✧ Quantum computation
- ✧ Classical information hiding
- ✧ The related integration of classical information security technology and quantum information

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Xiaojun Wang was awarded a PhD for his research in the area of High Level Logic Synthesis from Staffordshire University in 1993. He joined the School of Electronic Engineering of Dublin City University (DCU) as an assistant Lecturer in November 1992 became a permanent academic staff in 1995, and he is now a senior lecturer. His research interests include energy efficient networking, network security, quantum secure communications, hardware acceleration for network applications, etc. By now,

he has published more than 60 top-level papers.

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Xiu-Bo Chen is an Associate Professor in the School of Cyberspace Security at Beijing University of Posts and Telecommunications (BUPT). She received Ph.D. degree from BUPT in 2009. She was a visiting scholar at University of Calgary, Canada from Dec 2015 to Dec 2016. Her research interests include Quantum Cryptography, Quantum Computation, Quantum Network Coding, Quantum Private Communication, etc. By now, he has published more than 40 top-level papers on the main international conference and journals. She is the owner of New Excellent Century Talent of Ministry of Education of China in 2013 and the Fok Ying Tong Education Foundation in 2012.

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Min Lei, received a Ph.D. degree in information security from Beijing University of Posts and Telecommunications. He is currently an associate professor at the School of CyberSpace Security Beijing University of Posts and Telecommunications. His research interests include Network security and Cybespace Security. By now, he has published more than 20 top-level papers.

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Zhiguo Qu, received the Ph.D. degree in information security from Beijing University of Posts and Telecommunications, China, in 2011. From 2012 to 2014, he worked as a Post-doc Researcher Fellow at Dublin City University in Ireland. In July 2011, he joined Nanjing University of Information and Technology in China, where he is currently a Lecturer in the College of Computer and Software. His research interests include quantum secure communication, quantum information hiding, data mining and digital watermarking. By now, he has published more than 30 top-level papers.

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