

## Special Issue Call for Papers

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### Security and Communication Networks

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Editor in Chief: *Hsiao-Hwa Chen and Hamid R. Sharif*

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*Special Issue on “Challenges and Opportunities in Next Generation Cyberspace Security”*

### Introduction

The next generation of cyberspace online world of the future should be open, interoperable, reliable, and secure. Through Next Generation Cyberspace, individuals and communities are able to connect, socialize, and organize together. The goal of Next Generation Cyberspace is to deliver breakthrough innovation results for enterprises, enabling new products/services/markets, providing better quality for the digital economy, and building better governments. However, there exist challenges (such as growing demands, growing threats, constrained resources, and heterogeneous environments exist) in establishing Next Generation Cyberspace. It also calls for security and personal privacy considerations. The starting point for building a Next Generation Cyberspace can be found will be in a multitude of wired and wireless communication environments and a new technology or concept to support differentiated human-centric operations. The research efforts should provide innovative solutions in order to deliver resilient, cost-effective capabilities to the Next Generation Cyberspace and to meet the operational requirements in terms of security and privacy.

The main motivation for this special issue is to bring together researchers from academic and industry laboratories to discuss current research issues and advances (including research articles, case studies and tutorials) which cover diverse aspects of Next Generation Cyberspace. The aim of this special issue is to provide a platform for discussing relevant research questions and engagement in the growing area of Next Generation Cyberspace.

### Topics

Papers on practical as well as on theoretical topics and problems are invited. Topics include (but are not limited to):

- Attacks and intelligent defenses in Next Generation Cyberspace
- Applications, architectures and security models for Next Generation Cyberspace
- Identification and analysis of emerging trends and threats
- Early warning and response in Next Generation Cyberspace
- Critical information infrastructure protection
- Cybercrime and digital forensics
- SCADA security system
- Smart grid security
- Trust management and privacy protection in Next Generation Cyberspace

- Copyright protection and DRM in Next Generation Cyberspace
- Reliable self-healing for Next Generation Cyberspace
- Secure routing and interconnectivity for Next Generation Cyberspace
- Authentication and access control for Next Generation Cyberspace
- Security infrastructure supports for Next Generation Cyberspace
- Next generation communication and network technologies
- Privacy impact assessment and security risk analysis

## **Submission Guideline**

Only original and unpublished research papers will be considered in this special issue. All submissions will be reviewed based on technical merit and relevance. Guidelines for prospective authors can be found on-line at <http://www.interscience.wiley.com/journal/security>). Prospective authors should submit their paper online at <http://mc.manuscriptcentral.com/scn>. When submitting the papers, the authors MUST make sure to select Manuscript type as "Special Issue", enter the "Running Head" and the "Special Issue title" as "SCN-SI-062" and "Challenges and Opportunities in Next Generation Cyberspace Security", respectively. Failure to do so may result in reject of your submission without review.

## **Guest Editors**

### **Prof. James J. Park (Corresponding GE)**

Seoul National University of Science and Technology (SeoulTech), Korea

Website: <http://www.parkjonghyuk.net>

Email: [correspondingGE.james@gmail.com](mailto:correspondingGE.james@gmail.com)

### **Prof. Stefanos Gritzalis**

University of the Aegean, Greece

Website: <http://www.icsd.aegean.gr/sgritz>

Email: [sgritz@aegean.gr](mailto:sgritz@aegean.gr)

### **Prof. Bo-Chao Cheng**

National Chung-Cheng University, Taiwan

Website: <http://insa.comm.ccu.edu.tw/bo.htm>

Email: [bcheng@ccu.edu.tw](mailto:bcheng@ccu.edu.tw)

### **Dr. Ning Zhang**

University of Manchester, UK

Website: <http://www.cs.man.ac.uk/~nzhang/>

Email: ning.zhang@manchester.ac.uk

## **Important Dates**

Paper submission:	July 15, 2013
1st round review notification:	Sept. 1, 2013
1st revision due:	Sept. 30, 2013
2nd round review notification:	Oct. 30, 2013
2nd revision due:	Nov. 15, 2013
Final acceptance notification:	Nov. 30, 2013
Publication date:	3rd or 4th quarter, 2014 <tentative>