

Special Issue on

“Advanced Technologies and Services for Convergence Security”

The ‘Convergence Security (CS)’ represents an interdisciplinary field with roots in mathematics and engineering with applications in future computing environments including ubiquitous, pervasive, smart grid, and P2P computing. It aims to solve the various problems of advanced computing and communication services using mathematics and computer science in convergence computing environments. The reliable security solutions that rely on in depth cryptography are required as a countermeasure, such as data confidentiality, data integrity, authentication, non-repudiation, and access control services. This special issue focuses on advances in cryptography, security and its application issues for ‘Convergence Security (CS)’ and to encourage researchers to publish their results in JIT journal. It will also accept as a landmark source for cryptography, security and its applications for CS and will provide reader the most important state-of-the-art technologies in areas of applied mathematics for CS. The papers will be peer reviewed and will be selected on the basis of their quality and relevance to the theme of this special issue. Papers on practical as well as on theoretical topics and problems are invited. The best high-quality papers selected from “The FTRG 2010 International Symposium on Advances in Cryptography, Security and Applications for Future Computing (ACSA-10)” will be published in this special issue.

Topics of interest include (but are not limited to) ;

- **Cryptography and Information Security**
 - Public Key Cryptosystems
 - Hash Functions and Block/Stream Ciphers
 - Mathematical / Algorithmic Foundations of Applied Cryptography
 - Design and Analysis of Cryptographic Algorithms and Protocols
 - Pairing Based Cryptography for FCS
 - Provable Security for Cryptographic Primitives Suitable for FCS
 - Information Security with Mathematical Emphasis for FCS
- **Industrial Security & its Business and Services**
 - Common Criteria, Information assurance and Security Policy
 - Emergent challenges in security and assurance
 - Theories, methods, tools and techniques in managing security
 - Security and privacy standards
 - Risk evaluation and security certification
 - Security in E-commerce and E-business
- **Security Protocols and Applications**
 - Authentication and Non-repudiation
 - Access Control and Authorization
 - Identity and Trust Management
 - Database and System Security
 - Intrusion Detection, Tolerance and Prevention
 - Secure communications
 - Information Hiding and Digital Signature
 - Digital Rights management
 - Watermarking and Steganography
 - Critical infrastructure protection and Computer Forensics
 - Side Channel Attack and Software Security
 - Trust model and management

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Important Dates

Manuscript submission deadline: **June. 01, 2010**

Notification of acceptance: **Oct. 31, 2010**

Final Manuscript Due: **Dec. 31, 2010**

Publication of special issue: **2nd or 3rd Quarter, 2011 (Tentative)**

Submission Procedures

This special issue aims to foster state-of-the-art research in the area of cryptography, security and its applications. Authors are invited to submit manuscripts reporting original unpublished research and recent developments. Manuscripts should be written in English and strictly follow the guideline of the Journal of Internet Technology at <http://jit.ndhu.edu.tw/preparation2.php>. The best high-quality papers selected from ACSA-10 (Seoul, Korea, Dec. 9~11, 2010, <http://www.ftrg.org/acsa2010/>) proceedings, it will be published in this special issue. The covering letter should indicate the names of the authors and their affiliations, addresses, faxes, and e-mails. Prospective authors should submit full manuscripts with PDF, electronically by e-mail to Corresponding Guest Editor, **Prof. Jin Kwak**, at jkwak.sch@gmail.com by **June. 01, 2010**.