

# Sang Eon, Lee



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## Work Experience

2011.7 – Present Assistant, Lotte Data Communication Company, Seoul, South Korea

11.12 – 12.03 Information Security Consulting, IBK Capital

11.09 – 11.11 Information Security Consulting for Enhanced Security of Customer Information, Lotte Card

11.08 – 11.09 ISO27001 Certification Consulting, Korea Securities Depository [Support]

2008.8 – 2011.2 Korea Overseas Volunteer, IT Consultant, Regency of Malang, Indonesia

Dispatched by The Korea International Cooperation Agency (KOICA)

Substituted for Military Service

## Education

### *Colledge Education*

M.Eng., Infomation Security, Kyungpook National University, Daegu, 2008. *GPA: 4/4.3*

*Dissertation:* A Certificateless Group Key Agreement Protocol for Wireless Mesh Networks.

*Adviser:* Prof. Kee Young, Yoo

B.Eng. Computer Engineering, Keimyung University, Daegu, 2005. *GPA: 4.06/4.5*

### *Academy*

11.09 – 11.12 17th Digital Forensics Course, KISA Academy (90Hr.)

## Research Experience

### *Graduate Work*

My work focuses on security and energy efficiency in wireless multihop networks, particularly mesh networks. In the security domain, I proposed a certificateless group key agreement protocol which is well suited for wireless mesh networks. The proposed protocol is secure against several attacks under the modified Bilinear Inverse Diffie-Hellman (mBIDH) problem assumption and the Elliptic Curve Discrete Logarithm (ECDL) problem assumption. In the energy efficiency domain, the proposed protocol adopts an asymmetric computation technique to shift the computational burden to the mesh router and also adopts a certificateless public key cryptography instead of a traditional public key infrastructure due to the efficiency of public key management.

### *Lab Project*

- Secure cross layer protocol design for heterogeneous wireless mesh networks and its performance evaluation, Korea Science and Engineering Foundation, March 2006 – June 2007.
- DRM client development for mobile device, Industry Academic Cooperation Foundation, July 2006 – December 2006.

- OMA DRM v2.0 ROAP Protocol Analysis and Improvement, October 2006 – September 2007

## Publications

- Sang-Eon Lee, Sang-Ho Shin, Geum-Dal Park and Kee-Young Yoo. Wireless Sensor Network Protocols for Secure and Energy-Efficient Data Transmission. *CISIM 2008*: 157 – 162.
- Eun-Jung Lee Sang-Eon Lee and Kee-Young Yoo. A Certificateless Authenticated Group Key Agreement Protocol Providing Forward Secrecy. *UMC '08. International Symposium*:124 – 129.
- Zhen Ai Jin, Sang-Eon Lee and Kee Young Yoo. Efficient Authentication and Authorization Infrastructure for Mobile Users. *Advanced Web and Network Technologies and Applications (LNCS)*:155 – 164

## Extracurricular

2005 Representative for Keimyung University Inter-varsity Christian Fellowship

- Responsible for leading and caring about 130 members
- Responsible for having mutual understanding between secretaries and students

## Certificate

Engineer Information Processing (KOREA), CCNA, OCP 8i, CPPG (Certified Privacy Protection General)

## Technical Skills

C,C++, Java, LaTeX, Constructing Firewall and Server using Linux

## Miscellaneous

Citizenship: Seoul

Marital Status: Not Married

Hobby: Photography ( <http://photo.sangeon.com/> )

Last updated: February 12, 2012