

## Manhee Lee

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### EDUCATION

**Ph.D. Candidate**, Dept. of Computer Science, Texas A&M University, Sept. 2003-Present (Overall GPA 3.8, expected graduation date: Summer 2008)

**M.E.**, Dept. of Computer Engineering, Kyungpook National University, Korea, Feb. 1997

**B.E.**, Dept. of Computer Engineering, Kyungpook National University, Korea, Feb. 1995

### EXPERIENCE

**Lecturer**, Dept. of Computer Science, Texas A&M University, Spring 2008,  
CPSC321 Computer Architecture

**Intern**, Midrange Routing Business Unit, Cisco Systems, Inc., May 2007-Aug. 2007

Hardware Engineer: Involve in writing functional block specifications, Logic designing of Cisco Packet Processor (CPP)

**Research Assistant**, Dept. of Computer Science, Texas A&M University, Spring & Fall 2007

**Teaching Assistant**, Dept. of Computer Science, Texas A&M University, Fall 2005-Fall 2006

Fall 2005, spring & summer 2006: CPSC321 Computer Architecture (teaching MIPS assembly and Verilog programming)

Fall 2006: CPSC614 Advanced Computer Architecture

**Network researcher**, Supercomputing Center, KISTI, Korea, Dec. 1996-Jul. 2003

Performing research & developing server applications related to network security, network performance measurement, network management, etc.

### RESEARCH INTERESTS

**Secure Computer Architecture:** Secure multiprocessor design, secure computing architecture, Secure network protocol design, security enhanced NIC design

**High Performance Multiprocessors/Cluster Design:** High speed system interconnects, switch design

**System/Storage Area Network:** High speed network protocol & NIC design, cluster interconnects middleware

## PUBLICATIONS

### Journals

M. Lee, and E.J. Kim, "A Comprehensive Framework for Enhancing Security in InfiniBand Architecture," *IEEE Transactions on Parallel and Distributed Systems*, Vol. 18, No. 10, pp. 1393-1406, Oct. 2007.

### Conferences

M. Lee, M. Ahn, and E.J. Kim, "I<sup>2</sup>SEMS: Interconnects-Independent Security Enhanced Shared Memory Multiprocessor Systems," In the *Proceedings of the 16th International Conference on Parallel Architectures and Compilation Techniques (PACT)*, Brasov, Romania, 2007.

M. Lee, E.J. Kim, and M. Yousif, "Security Enhancement in InfiniBand Architecture," In the *Proceedings of the 19th IEEE International Parallel & Distributed Processing Symposium (IPDPS)*, Denver, 2005

M. Lee, S.K.Jung, Y.J.Kwon, K.H.Kim, and O.H.Byeon, "Spanning Tree Search Model to Traceback DDoS Attack using Netflow," In the *Proceedings of the International Conference on Security and Management*, Las Vegas, USA, 2003

M. Lee, H.J.Choi, H.W.Park, "A Study on Management Model of World Wide Web Server," *Proceedings of the 13th International Conference on Information Networking (ICOIN)*, Cheju, Korea, 1999

### Workshops

M. Lee, E.J. Kim, K.H. Yum, and M. Yousif, "An Overview on Security Issues in Cluster Interconnects," In the *Proceedings of the Second International Workshop on Cluster Security (Cluster-Sec'06)*, CCGrid Workshop, Singapore, 2006

M. Lee, E.J. Kim, K.H. Yum, and M. Yousif, "Instant Attack Stopper in InfiniBand Architecture," In the *Proceedings of the First International Workshop on Cluster Security (Cluster-Sec'05)*, CCGrid Workshop, Cardiff, UK, 2005

M. Lee, E.J. Kim, and C.W. Lee, "A Source Identification Scheme against DDoS Attacks in Cluster Interconnects," In the *Proceedings of the International Workshop on Network Design and Architecture (IWNDA)*, ICPP Workshop, Montreal, Quebec, 2004

## PATENTS

W.J. Seok, M.H.Lee, "Control mechanism for controlling access to zone information of Secure Domain Name System," Korea.

M.H.Lee, W.J.Seok, "Authentication mechanism for Secure Domain Name System," Korea

H.J.Choi, M.H.Lee, "Application management system by client/server mechanism," Korea

H.J.Choi, M.H.Lee, "An efficient mechanism for managing application in Internet/Intranet," Korea

S.K.Jung, M.H.Lee, "A mechanism for resource allocating network resource via WWW in DiffServ network," Korea

## **SERVICES**

Deputy chair, Measurement working group of Asia Pacific Advanced Network Consortium – Korea (APAN-KR), 2002-2003

Co-chair, Measurement working group of APAN, 2002-2003

## **SKILLS**

C, C++, MIPS, Verilog

InfiniBand, TCP/IP, IPSec, PKI, SNMP, DNS, Netflow

## **HONORS AND AWARDS**

IT Student Scholarship, MIC, Korea, 2003-2004

IEEE IPDPS 2005 Conference Student Travel Awards, 2005

PACT 2007 Conference Student Travel Awards, 2007