

Lee, Hojun

2002E. River Road APT. P1, Tucson, Arizona, 85718
520-861-6186, Email: hjlee@email.arizona.edu

EDUCATION

- 1991 - 1995 **Korea Military Academy**, Seoul, Korea
Bachelor of Science, Computer Science
- 2001 - 2003 **Korea University**, Seoul, Korea
Master of Engineering, Electronics Engineering
Master's thesis "Efficient Two-Stage Kalman Filter Structure for Robust Tracking of Maneuvering Target in Clutter" based on the theme of the application of optimal two-stage Kalman filter method to IMM/PDAF in order to reduce computational load of the tracking filter
- 2005 – Present **University of Arizona**, Tucson, Arizona
Ph.D candidate, Department of Electrical and Computer Engineering
Advisor : Professor Bernard P. Zeigler

EXPERIENCE

- 2006- Present **Arizona Center for Integrative Modeling & Simulation.**, University of Arizona, Tucson, Arizona.
Research area: Military & Communication Systems Modeling & Simulation
- Research on C4I systems modeling & simulation via BML and SES ontology
 - Researched a Link-11 Gateway over TCP/IP network for NGIT
 - Presented two conference papers:
 - "A DEVS-based framework for simulation optimization: Case study of Link-11 gateway parameter tuning"; Hojun Lee; Zeigler, Bernard P.; Doohwan Kim.; Military Communications Conference, 2008. MILCOM 2008, IEEE, Page(s):1 – 7, San Diego, CA, 16-19 Nov. 2008
 - "Improving Testing Capability of Interoperability for Link-11 by building a Gateway for a TCP/IP Network"; H.J. Lee, Taekyu Kim , Zeigler, B.P. , Dale Fulton, Doohwan Kim, SISO 2007 Fall Simulation Interoperability Workshop, Volume 2, pages 663-669, Orlando, FL, September 2007
- 2003- 2005 **The Air-defense Battalion of 20th Mechanized Infantry Division**, Republic of Korean Army, Yangpyeong, Korea
- 2001- 2003 **Intelligent Information & Signal Processing Lab.**, Korea University, Seoul, Korea
Research area: Speech & Image signal processing
- Researched on various tracking filters based on Kalman Filter : IMM, PDAF, IMM/PDAF
 - Researched tracking filter for Agency for Defense Development's project (A Data Fusion Method for Multiple Sensors)
 - Presented my thesis on the following events : 15th Annual Conference of the Korea Institute Signal Processing and Systems in 2002, Spring Conference of The Korean Institute of Maritime Information and Communication Sciences in 2002
- 1998- 2000 *The 2nd Company Commander, The mechanized anti-aircraft unit to protect mechanized infantry division*
- Gained various experiences in sophisticated military electrical equipments, anti-aircraft weapons such as anti-aircraft gun, short-range missile, and radar
 - Gained experience in management of 120 members.

- Won a commendation from the Head of Presidential Security Service, two commendations from the Capital Defense Commander, two commendations from the Commander of Mechanized Infantry Division, and an award from the Commander of Air Defense Group

1995- 1998

The 1st Air-defense Brigade, Republic of Korean Army, Wandang, Korea

Battalion air-defense operation & intelligence officer, The anti-aircraft unit to guard the special sector

- Achieved positive and active attitude in working from experiences of managing 500 members and effectively operating the system plan
- Won a commendation from the Commander of Combined Arms and a commendation from the Commander of Air Defense Brigade

The platoon leader of the 2nd Company

- Gained experience as a superintendent of 20 members and various electrical weapon systems

OTHERS

Computer Language: MATLAB, Java and C