

Inho Choi,

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The 1st R&D Institute
Agency for Defense Development (ADD)

FIELD OF RESEARCH INTERESTS

- ◆ Missile electronic system design and development
- ◆ Communications theory and signal processing
- ◆ Robust communication technique in harsh fading channel
- ◆ Verification method, Validation way for certification and reliability

EDUCATION

Mar/20 - Present **Ph.D. candidate** in Electrical Engineering, **CNU**, Daejeon, Korea
Mar/11 - Feb/13 **M.S.** in Information and Communication Engineering, **DGIST**, Daegu, Korea
Mar/02 - Feb/09 **B.S.** in Electronic, Electrical and Computer Science, **KNU**, Daegu, Korea

CERTIFICATE

- ◆ Engineer, Radio Telecommunication Equipment, 2016

PROFESSIONAL EXPERIENCE

Jan/16 – Present **Senior Researcher, Agency for Defense Development (ADD)**, The 1st R&D Institute, Daejeon, Korea

Feb/14 – Dec/15 **Researcher, Agency for Defense Development (ADD)**, The 1st R&D Institute, Daejeon, Korea

Feb/13 – Jan/14 **Senior Research Engineer, LIGNex1**, Communication R&D Lab, Kyunggi-do, Korea
- Development Robot Control Network (RCN) (with Agency for Defense Development)
Wireless system for unmanned robot, vehicle based on 4G wireless technology
Including 2x4 MIMO, AMS/AMC, autonomic Ad-hoc network.

Jan/09 – Feb/11 **Research Engineer, LIGNex1**, Avionics R&D Lab, Daejeon, Korea
- Development Rugged AMLCD Avionics Display
12.1inch Dumb type Multi-function Display(DMFD) with Touchscreen
(Display System, MKE Research Project, 2009 Seoul International Aerospace & Defense Exhibition)
- Development, 8.4inch DMFD for certification KTSO-C113 (Korea FAA)
- Participated in research, Application of Helmet Mounted Display(HMD) system in Link-K
(Agency for Defense Development, Preceding Study Project)

PUBLICATIONS

- [1] Jeong Hee Shin, Jaehan Im, Sang Sik Shin, Inho Choi, Ji-Woong Choi, and Jae Eun Jang, "Asymmetric tunneling metal-insulator-metal diode for high frequency application," *IRMMW2012*, Aug. 2012
- [2] Inho Choi, Ji-Woong Choi, "Improved Noise Power and SNR Estimation using Time & Frequency Fading Characteristics in OFDM Systems," 한국통신학회 하계종합학술발표회, June. 2012.
- [3] Inho Choi, Jungyeol Kim, Daebeom Seoug, "Switching Mode LED Backlight Luminance Control Circuit for Avionics Display," *ADD 40th Anniversary Conference*, pp 336 – 338 Aug. 2010.
- [4] Sooyeol Im, Chiho Hwang, Hwansuk Lee, Inho Choi, "A Study on Implementation of Network Based Telemetry System Using Retransmission", *ETC2016*, pp206-209., May 2016.

R&D PROJECTS

- ◆ Missile system design and project management, ADD, 2014.2~Present
- ◆ Ground Robot Remote Control Network, ADD, 2013.2~2014.1
- ◆ Research on Intra-body Wireless System for Biomedical Implants, MEST, 2012. 5~2015. 4
- ◆ Artificial Wireless Implant Technology for Rehabilitation of Human Sensory System, DGIST, 2012.5~2013.12
- ◆ Effective SNR Estimation for LTE system 2011.6~2013.12

HONORS AND AWARDS

- ◆ Letter of commendation, Defense Acquisition Program Administration, Jan. 2021.
- ◆ R&D incentive, Silver prize, Defense Acquisition Program Administration, Nov. 2019
- ◆ Letter of appreciation, ROK Joint Chiefs, Nov. 2018.
- ◆ Letter of commendation, ROK Joint Chiefs, Aug. 2016.
- ◆ Achievement Award, ADD, Sep. 2015
- ◆ Participation Award, English Speaking Contest, KNU, Nov, 2008

PATENTS

Issued Patents

- [1] 황치호, 임수열, 이환석, 이상문, 최인호, "해상 수신용 원격측정 시스템", issued, Korea, 10-1986357, May. 30, 2019
- [2] 최인호, 진주영, 황찬오, 홍일선, "정밀 위치 해상 계측을 위한 무인 자율 부이 시스템, 이의 방법, 그리고 이 방법을 저장한 컴퓨터 판독 가능 저장 매체", issued, Korea, 10-1986357, Jul. 07, 2020