

HOON KIM

+82-10-9092-6358 ◇ gnsrla12@kaist.ac.kr

<https://gnsrla12.github.io/>

I am an M.S. student in the EE Dept. at Korea Advanced Institute of Science and Technology (KAIST). I am advised by Prof. Changho Suh and a member of Information System Laboratory. My major interest currently lay in utilizing computer simulation and deep learning to tackle real-world problems.

EDUCATION

M.S. Electrical Engineering

March 2017 - present

Korea Advanced Institute of Science and Technology, Daejeon, Korea

Advisor: Professor Changho Suh

B.S. Double Major: Electrical Engineering and Computer Science

March 2012 - February 2017

Korea Advanced Institute of Science and Technology, Daejeon, Korea

Exchange Student at NYU School of Engineering

January 2016 - May 2016

New York University, NY, USA

PUBLICATIONS (*=EQUAL CONTRIBUTION)

1. **Crash to Not Crash: Learn to Identify Dangerous Vehicles using a Simulator**

AAAI, Honolulu, Hawaii, USA, January, 2018 (acceptance rate: 16.2%)

Hoon Kim*, Kangwook Lee*, Gyeongjo Hwang and Changho Suh

2. **Simulated+Unsupervised Learning With Adaptive Data Generation and Bidirectional Mappings**

ICLR, BC, Canada, April, 2018

Kangwook Lee*, **Hoon Kim***, and Changho Suh

3. **SGD on Random Mixtures: Private Machine Learning under Data Breach Threats**

ICLR Workshop, BC, Canada, April, 2018

Kangwook Lee, Kyoungmin Lee*, **Hoon Kim***, Changho Suh, and Kannan Ramchandran

4. **SGD on Random Mixtures: Private Machine Learning under Data Breach Threats**

SysML, Stanford, CA, USA, February, 2018

Kangwook Lee, Kyoungmin Lee*, **Hoon Kim***, Changho Suh, and Kannan Ramchandran

5. **Crash to not crash: Playing video games to predict vehicle collisions**

ICML Workshop on Machine Learning for Autonomous Vehicles, Sydney, Australia, August, 2017

Kangwook Lee*, **Hoon Kim***, and Changho Suh

INVITED TALKS

1. Learning from Computer Simulations to Tackle Real World Problems

Invited talk @ Naver

November 2018

Invited talk @ Samsung Advanced Institute of Technology (SAIT)

August 2018

2. Simulated+Unsupervised Learning with Adaptive Data Generation and Birectional Mappings

Invited talk @ Institute of Electronics Engineers of Korea (IEEK), Summer Conference

June 2018

WORK EXPERIENCE

1. Software Engineer Intern: Naver D2 Startup Factory

July 2015 - August 2015

Electric Mobility Embedded System Development

2. Software Engineer Intern: Smilegate

July 2015

Real-time Multiplayer Game Server Development

AWARDS

1. Won second place (\$10,000) in KAIST E5 Start-up Challenge, 2015

TECHNICAL STRENGTHS

Computer Languages Python, C, C#, Matlab, Android Development

Deep Learning Tensorflow, Pytorch