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, 2019 (oral presentation, oral acceptance rate: 7.4%)
   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*
   Smart Mobility Embedded System Development
2. **Software Engineer Intern: Smilegate** *July 2015*
   Real-time Multiplayer Game Server Development

TEACHING EXPERIENCE

1. **Information Theory** *September 2018 - December 2018*
   Teaching Assistant
2. **Network of Smart Systems** *March 2018 - June 2018*
   Teaching Assistant
3. **Entrepreneurship and Immersive Programming Camp** *June 2016 - July 2016*
   Teaching Assistant

AWARDS

1. **KAIST E5 Start-up Challenge** *December 2015*
   Second place with smart mobility system – $10,000
2. **Top 10 representative research outcome of KAIST EE department of 2018** *January 2019*
   Predicting Vehicle Collisions using Data Collected from Video Games

TECHNICAL STRENGTHS

Computer Languages	Python, C, C#, Matlab, Android Development
Deep Learning	Tensorflow, Pytorch