HOON KIM

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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 *Mar. 2017 - present*
Korea Advanced Institute of Science and Technology, Daejeon, Korea
Advisor: Professor Changho Suh

B.S. Double Major: Electrical Engineering and Computer Science *Mar. 2012 - Feb. 2017*
Korea Advanced Institute of Science and Technology, Daejeon, Korea

Exchange Student at NYU School of Engineering *Jan. 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 *Aug. 2018*
   Invited talk @ Samsung Advanced Institute of Technology (SAIT) *Nov. 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 - Aug. 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