

**HENND 2017 Workshop Advance Program**

Sapphire Ballroom (3F), Lotte Hotel (City Center), Seoul, Korea

October 20, 2017

**7:30-8:30 Breakfast (Sapphire 1+2+3)**

**8:30-9:15 Keynote 1 (Sapphire 4)**

Prof. Yoshua Bengio, University of Montreal, Towards End-to-End Trainable Hardware

**9:15-10:00 Keynote 2 (Sapphire 4)**

Prof. Hoi-Jun Yoo, KAIST, Mobile/Embedded Deep Neural Networks and Applications

**10:00-10:30 Poster and Coffee (Sapphire Lobby)**

Submitted poster papers are presented as posters

**10:30-12:30 Session 1 (Sapphire 4)**

Dr. Kangwon Lee, SK Telecom, Developing an AI Computing Infra at SKT, a Leading Service Provider

Dr. Takashi Miyamori, Toshiba, Efficient Implementation of Deep Neural Network Hardware

Dr. Jian Ouyang, Baidu, Power-Efficient Deep Learning accelerator for Baidu Apollo

Dr. Jaeyoun Kim, Facebook, Caffe2: A New Lightweight, Modular, and Scalable Deep Learning Framework for mobile deep learning

**12:30-13:30 Lunch (Sapphire 1+2+3) and Poster (Lobby)**

**13:30-15:00 Session 2 (Sapphire 4)**

Dr. Yongdeok Kim, Samsung Electronics, CNN optimizations on smartphones

Prof. Yu Wang, DeepHi, Efficient Deep Learning Processing Unit Design for FPGA/Edge

Prof. Junmo Kim, KAIST, A Gift from Knowledge Distillation: Fast Optimization, Network Minimization and Transfer Learning

**15:00-15:30 Poster and Coffee (Lobby)**

**15:30-16:30 Session 3 (Sapphire 4)**

Prof. Sungju Hwang, UNIST, SplitNet: Learning to Semantically Split Deep Networks for Parameter Reduction and Model Parallelization

Prof. Minsoo Rhu, POSTECH, Accelerator-Centric Systems for Scalable and Energy-Efficient Deep Learning

**Closing remarks**