Jaesik Yoon

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Education

2012-2014 M.S., Electrical and Electronic Engineering
Korea Advanced Institute of Science and Technology (KAIST)
Advisor: Chang Dong Yoo

2006-2010 B.A., Media Communication Engineering
Hanyang University

Honors

2010 Summa cum laude

2006-2010 National Science Technology Scholarship

Employments

Jan 2017 - SAP Labs Korea as Machine Learning Developer
Seoul

Aug 2014 - Jan 2017 Samsung Electronics as Software Developer
Suwon

Publications

(* indicates equal contribution)

2020 **Jaesik Yoon**, Gautam Singh, Sungjin Ahn. Robustifying Sequential Neural Processes. In *Proceedings of the 37 th International Conference on Machine Learning* (**ICML**), Virtual Conference.

2019 Gautam Singh*, **Jaesik Yoon***, Youngsung Son, Sungjin Ahn. Sequential Neural Processes. In *Proceedings of the 33nd Conference on Neural Information Processing Systems* (**NeurIPS**), Vancouver, Canada.

Dongjun Lee, **Jaesik Yoon**, Jongyun Song, Sanggil Lee, Sungroh Yoon. One-Shot Learning for Text-to-SQL Generation. arXiv:1905.11499.

2018 **Jaesik Yoon***, Taesup Kim*, Ousmane Dia, Sungwoong Kim, Yoshua Bengio, Sungjin Ahn. Bayesian model-agnostic meta-learning. In *Proceedings of the 32nd Conference on Neural Information Processing Systems* (**NeurIPS**), Montréal, Canada.

2014 **Jaesik Yoon**, Jinho Choi, Chang D Yoo. A hierarchical-structured dictionary learning for image classification. In *Proceedings of the 2014 IEEE International Conference on Image Processing* (**ICIP**), Paris, France.

Projects

2018 SAP HANA Auto configuration
designed/implemented a model to optimize HANA performance by automatically tunning configurations of the system.

SAP HANA Issue Recognition
designed/implemented a model to capture issues in HANA system with KPIs.

2017 SAP HANA system load prediction
designed/implemented a model to predict a sequential load of complex in-memory database.

Adversarial Attack to Capsule Networks
Validate Capsule Network (Sabour, Sara, Nicholas Frosst, and Geoffrey E. Hinton. 2017) for adversarial attacks.

NIPS 2017 Defense Against Adversarial Attack
Attended adversarial attack competition and got 18th place in 91 teams.

Programmable Agents
Implemented Programmable Agents (Denil, Misha, et al. 2017).

Visual Interaction Networks
Implemented Visual interaction networks: Learning a physics simulator from video (Watters, Nicholas, et al. 2017).

Interaction Networks
Implemented Interaction Networks for Learning about Objects, Relations and Physics (Battaglia, Peter, et al. 2016).

PathNet
Implemented PathNet: Evolution Channels Gradient Descent in Super Neural Networks (Fernando, Chrisantha, et al. 2017).

Asynchronous DDPG with Distributed TF
Implemented Asynchronous DDPG with distributed Tensorflow.

A3C with Distributed TF
Implemented Asynchronous Methods for Deep Reinforcement Learning (Mnih, Volodymyr, et al. 2016) with distributed Tensorflow.

Sequential GAN
Implemented GAN for sequential data generation.

Tree-structured Group Lasso
Implemented Proximal Methods for Hierarchical Sparse Coding (Jenatton, Rodolphe, et al. 2011).

2016 Samsung VoLTE Management and Analysis (VoMA) Tool Development
I contributed a development of VoMA which is to analyze VoLTE quality on every eNBs.

2015 Samsung eNB performance Abnormality Detection
I worked to develop a detection model about eNB anomaly performance.

2014 Samsung eNB Hardware Failure Prediction
I developed a model to predict eNB hardware failure.

Invited Talks

”(Robustifying) Sequential Neural Processes”
NOTA(Jun 2020)

”Adversarial Attacks”
Naver Corp(Dec 2017), IITP(Nov 2018)