Jee Seok Yoon

PhD Student @ Korea University

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Seoul, South Korea

INTERESTS

Meta-learning, Explainable AI, Medical Image Analysis

Current Interest: Explainable AI with few-shot learning

EDUCATION

Korea University — Seoul, South Korea
PhD student in Dept. of Brain and Cognitive Engineering — Sep. 2018 –
Advisor: Professor Heung-Il Suk
GPA: 4.33 / 4.5 (98.1 / 100)

Korea University — Seoul, South Korea
Undergraduate student in Dept. of Computer Science and Engineering — Mar. 2012 – Aug. 2018
GPA: 3.27 / 4.5 (85.9 / 100)

American International School Dhaka — Dhaka, Bangladesh
Middle, High school — Mar. 2007 – Mar. 2010

AWARD

Student Travel Award — Quebec, Canada
Medical Image Computing and Computer Assisted Intervention Conference (MICCAI, link) — Sep. 2017

Best Paper Award — Jeju Island, South Korea
Korean Institute of Information Scientists and Engineers (KIISE) Korea Computer Congress (KCC, link) — Jun. 2017

Best Undergraduate Student Paper Award — Pyeongchang, South Korea
KIISE Winter Conference (Link) — Dec. 2016

PUBLICATION

Bum-Chae Kim*, **Jee Seok Yoon***, Jun-Sik Choi, and Heung-Il Suk, "Multi-scale Gradual Itegration Convolutional Neural Network for False Positive Reduction in Pulmonary Nodule Detection," arXiv, 2018 (Under review at Neural Networks, arXiv, code)

Wonjun Ko*, **Jee Seok Yoon**, and Heung-Il Suk, "Towards Reducing Calibration in BCI: Artificial EEGs Generation by Deep Learning," Proc. of 7th International Brain-Computer Interface Meeting, Pacific Grove, USA, 2018. (*Accepted*, poster, link)

Wonjun Ko*, **Jee Seok Yoon**, Eun-song Kang, Eunji Jun, Jun-Sik Choi, and Heung-Il Suk, "Deep Recurrent Spatio-Temporal Neural Network for Motor Imagery based BCI," Proc. of 6th International Winter Conference on Brain-Computer Interface, High1 Resort, Korea, 2018. (*Accepted*, poster, link)

Jee Seok Yoon*, Eun-Song Kang, and Heung-Il Suk, "Gated Two-Stage Convolutional Neural Network for Ischemic Stroke Lesion Segmentation," Proc. of 2017 MICCAI Workshop on Ischemic Stroke Lesion Segmentation Challenge (ISLES) 2017, Quebec, Canada, 2017. (*Student Travel Award*, poster, link)

EXPERIENCE

Kakao — Pangyo, South Korea
Research Intern — Jun. 2018 – Aug. 2018
- Mainly focused on meta-learning and few-shot learning

Machine Intelligence Laboratory — Korea University, South Korea
Undergraduate Researcher (Advisor: Professor Heung-Il Suk) — Apr. 2016 – Jun. 2018
- First authored three award winning papers on brain tumor / lesion segmentation. Each paper was in top 10 in MICCAI BRATS / ISLES competition at the time of submission.
- Second authored in papers which are one of the few deep learning researches in BCI.
- Participated in projects on deep learning approaches to Alzheimer Disease classification.

SKILL

PROGRAMMING

3 years of **daily usage** of Tensorflow, PyTorch, Python
6+ months of experience in Android and Java server programming at a startup company

DATASET FLUENCY

3 years of experience with 2D/3D image, time-series dataset
MRI (Structural: BRATS, ISLES / Functional: ADNI), EEG (Kaggle)