Jihwan Bang

ML Research Engineer @ Naver Clova

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Education

M. S., School of Electrical Engineering — Mar 2017 - Feb 2019
Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea

B. S., School of Electrical Engineering — Mar 2012 - Feb 2017
Korea Advanced Institute of Science and Technology (KAIST) — Daejeon, South Korea

Research Interests

Data AI: Active Learning (AL), Continual Learning (CL)

Vision AI: Face Recognition, Face Anti-spoofing, Portrait Segmentation, General Vision Model

Others: Reinforcement Learning for Autonomous UAV Control, Military Networks.

Work Experience

Naver Clova — Mar 2019 - present
AI Research Engineer at Clova AI Team — Seongnam, South Korea

- Research on Active Learning (AL) and Continual Learning (CL).
- Build face recognition and anti-spoofing models.
- Build data labelling pipeline using AL to reduce labelling cost.

Publications

Conferences Published

C1. **Jihwan Bang***, Heesu Kim*, YoungJoon Yoo, Jung-Woo Ha and Jonghyun Choi, *" Rainbow Memory: Continual Learning with a Memory of Diverse Samples"*, CVPR, 2021.
C2. Hyojin Park, Lars Sjosund, YoungJoon Yoo, Nicolas Monet, **Jihwan Bang** and Nojun Kwak, *"Sinet: Extreme lightweight portrait segmentation networks with spatial squeeze module and information blocking decoder"*, WACV, 2020.
C3. Hoyong Choi, **Jihwan Bang**, Namjo Ahn, Jinhwan Jung, Jungwook Choi, Soobum Park and Yung Yi, *"CH-MAC: A Cluster-based, Hybrid TDMA MAC Protocol over Wireless Ad-hoc Networks"*, MILCOM, 2020.
C4. Hyojung Lee, **Jihwan Bang** and Yung Yi, *"Incentivizing hosts via multilateral cooperation in user-provided networks: A fluid shapley value approach"*, Mobihoc, 2018.

Arxiv

A1. **Jihwan Bang***, Heesu Kim*, YoungJoon Yoo and Jung-Woo Ha, *"Boosting Active Learning for Speech Recognition with Noisy Pseudo-labeled Samples"*, arXiv, 2020.
A1. Hyojin Park, Lars Lowe Sjösund, YoungJoon Yoo, **Jihwan Bang** and Nojun Kwak, *"ExtremeC3Net: Extreme Lightweight Portrait Segmentation Networks using Advanced C3-modules"*, arXiv, 2019.

MISC: Domestic pulbications

M1. Daewoo Kim, Wan Ju Kang, Yoon-pyo Koo, **Jihwan Bang**, Kyung-hwan Son, David Hostallero, Se-eun Yoon, Hyun-ho Yeo, Jae-hyeong Ha, Nansol Seo, Dongsu Han and Yung Yi, *"AI-Based Drone Object Tracking System: Design and Implementation"*, The Journal of Korean Institute of Communications and Information Sciences, 2017.

M2. Kyung-hwan Son, David Hostallero, Daewoo Kim, **Jihwan Bang**, Wan Ju Kang, Se-eun Yoon, Yoon-pyo Koo, Hyun-ho Yeo, Jae-hyeong Ha, Nansol Seo, Dongsu Han and Yung Yi, *"On the Efficiency of Running Machine Learning Tasks for Drone-Based Target Tracking : Cloud-Based vs. Drone-Based"*, The Journal of Korean Institute of Communications and Information Sciences, 2018.

M3. Yoonpyo Koo, **Jihwan Bang**, Kyung-hwan Son, Suho Shin, Sumyeong Ahn, Yung Yi, Junghoon Yoo and Jaeshin Kim, *"An Implementation of Multi-hop Voice Communication System Using Drones"*, The Conference of Korean Institute of Communications and Information Sciences, 2017.

Patents

P1. **Jihwan Bang***, Heesu Kim*, Yeongjoon Yoo and Jung-Woo Ha, "Method and system for training speech recognition models using augmented consistency regularization, " *Korea, Patent Application Number: 10-2020-0111929*, Sep 2, 2020.

Reference Available on Request

Professor Yung Yi: Professor at the Department of Electrical Engineering, Korea Advanced Institute of Science and Technology (KAIST), South Korea, yiyung@kaist.edu