Chunghyun Park

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RESEARCH INTERESTS

3D Perception, 3D Reconstruction, and Geometric Deep Learning

EDUCATION

Ph.D. in Artificial Intelligence   March 2022 - Present
POSTECH (Advisor: Prof. Minsu Cho)   Pohang, Republic of Korea
M.S. in Artificial Intelligence   March 2020 - Feb. 2022
POSTECH (Advisor: Prof. Jaesik Park)   Pohang, Republic of Korea
Thesis: Fast Point Transformer for Large-scale 3D Scene Understanding
B.S. in Mechanical Engineering   March 2014 - Feb. 2019
POSTECH   Pohang, Republic of Korea

PUBLICATIONS

All publications are available in Google Scholar.

[1] Seungwook Kim*, **Chunghyun Park***, Yoonwoo Jeong, Jaesik Park, and Minsu Cho (*equal contribution)
   Stable and Consistent Prediction of 3D Characteristic Orientation via Invariant Residual Learning
   International Conference on Machine Learning (**ICML**), 2023

[2] Seungwook Kim*, Yoonwoo Jeong*, **Chunghyun Park***, Jaesik Park, and Minsu Cho (*equal contribution)
   SeLCA: Self-Supervised Learning of Canonical Axis
   NeurIPS Workshop on Symmetry and Geometry in Neural Representations (**NeurReps**), 2022

[3] Jaesung Choe*, **Chunghyun Park***, Francois Rameau, Jaesik Park, and In So Kweon (*equal contribution)
   PointMixer: MLP-Mixer for Point Cloud Understanding
   European Conference on Computer Vision (**ECCV**), 2022

[4] **Chunghyun Park**, Yoonwoo Jeong, Minsu Cho, and Jaesik Park
   Fast Point Transformer
   IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022

[5] Yunseob Hwang*, Han Hee Lee*, **Chunghyun Park**, Bayu Adhi Tama, ..., and Seungchul Lee (*equal contribution)
   Improved classification and localization approach to small bowel capsule endoscopy using convolutional neural network
   Digestive Endoscopy, 2021 (Impact Factor: 7.559)

ACADEMIC SERVICES

Journal Reviewer: TPAMI (2023), IJCV (2023)
Conference Reviewer: ICLR (2024), NeurIPS (2023), ICCV (2023), CVPR (2022-2023), ECCV (2022)

HONORS & AWARDS

BK21 Best Paper Award (Grand Prize) | *POSTECH Graduate School of Artificial Intelligence (GSAI)*   Feb. 2023
   • Awarded to the year's best paper of POSTECH GSAI.
Qualcomm Innovation Fellowship Korea | *Qualcomm Korea Corp.*   Nov. 2022
   • Awarded to graduate students in South Korea who published one of the year's best 20 papers on AI.
Samsung Humantech Paper Award (Silver Prize) | *Samsung Electronics Co., Ltd.*   Feb. 2022
   • Awarded to the year's most prominent papers of South Korea in 10 fields.