Seokju Cho Ph.D.

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Education

Korea Advanced Institute of Science and Technology (KAIST) Seoul, Korea
Integrated M.S./Ph.D. in Artificial Intelligence 2024 - 2028 *(expected)*
- Advisor: Prof. Seungryong Kim
- Research area: Computer Vision

Korea University Seoul, Korea
Integrated M.S./Ph.D. in Computer Science and Engineering 2022 - 2024
- Transferred to KAIST with supervisor (degree incomplete).

Yonsei University Seoul, Korea
B.S. in Computer Science 2018 - 2022

Internships

Adobe Research | San Jose, CA, USA 2024.06 - 2024.09
- Mentors: Gabriel Huang, Joon-Young Lee

Adobe Research | San Jose, CA, USA 2023.06 - 2023.09
- Mentors: Joon-Young Lee, Gabriel Huang
- Worked on 'Revisiting Optical Flow for Long-Range Dense Tracking,' CVPR 2024.

Publications

1. Heeseong Shin, Chaehyun Kim, Sunghwan Hong, **Seokju Cho**, Anurag Arnab, Paul Hongsuck Seo, Seungryong Kim, "Towards Open-Vocabulary Semantic Segmentation Without Semantic Labels",
Neural Information Processing Systems (**NeurIPS**), 2024.

2. **Seokju Cho**, Jiahui Huang, Jisu Nam, Honggyu An, Seungryong Kim, and Joon-Young Lee, "Local All-Pair Correspondence for Point Tracking",
European Conference on Computer Vision (**ECCV**), 2024.

3. **Seokju Cho**, Jiahui Huang, Seungryong Kim, and Joon-Young Lee, "FlowTrack: Revisiting Optical Flow for Long-Range Dense Tracking",
IEEE Conference on Computer Vision Pattern Recognition (**CVPR**), 2024.

4. **Seokju Cho***, Heeseong Shin*, Sunghwan Hong, Anurag Arnab, Paul Hongsuck Seo, and Seungryong Kim, "CAT-Seg: Cost Aggregation for Open-Vocabulary Semantic Segmentation",
IEEE Conference on Computer Vision Pattern Recognition (**CVPR**), **Highlight**, 2024.

5. Sunghwan Hong*, **Seokju Cho***, Seungryong Kim, Stephen Lin, "Unifying Feature and Cost Aggregation with Transformers for Dense Correspondence",
International Conference on Learning Representations (**ICLR**), 2024.

6. Jiuhn Song*, Seonghoon Park*, Honggyu An*, **Seokju Cho**, Min-Seop Kwak, Sungjin Cho, and Seungryong Kim, "DäRF: Boosting Radiance Fields from Sparse Inputs with Monocular Depth Adaptation",
Neural Information Processing Systems (**NeurIPS**), 2023.

7. Jihye Park*, Sunwoo Kim*, Soohyun Kim*, **Seokju Cho**, Jaejun Yoo, Youngjung Uh, and Seungryong Kim, "LANIT: Language-Driven Image-to-Image Translation for Unlabeled Data",
IEEE Conference on Computer Vision Pattern Recognition (**CVPR**), 2023.

8. Junyoung Seo*, Gyuseong Lee*, **Seokju Cho**, Jiyoung Lee, Seungryong Kim, "MIDMs: Matching Interleaved Diffusion Models for Exemplar-based Image Translation",
AAAI Conference on Artificial Intelligence (**AAAI**), 2023.

9. **Seokju Cho***, Sunghwan Hong*, Seungryong Kim, "CATs++: Boosting Cost Aggregation with Convolutions and Transformers",
IEEE Trans. on Pattern Analysis and Machine Intelligence (**TPAMI**), 2023.

9. Sunghwan Hong, Jisu Nam, **Seokju Cho**, Susung Hong, Sangryul Jeon, Dongbo Min, and Seungryong Kim, "Neural Matching Fields: Implicit Representation of Matching Fields for Visual Correspondence",
Neural Information Processing Systems (**NeurIPS**), 2022.

10. Sunghwan Hong*, **Seokju Cho***, Jisu Nam, Stephen Lin, Seungryong Kim, "Cost Aggregation with 4D Convolutional Swin Transformer for Few-Shot Segmentation",
European Conference on Computer Vision (**ECCV**), 2022.

11. **Seokju Cho***, Sunghwan Hong*, Sangryul Jeon, Yunsung Lee, Kwanghoon Sohn, Seungryong Kim, "CATs: Cost Aggregation Transformers for Visual Correspondence",
Neural Information Processing Systems (**NeurIPS**), 2021.

Awards and Honors

- **Google East Asia Student Travel Grants for CVPR,** 2024.06
- **3rd Place Award in AI Online Competition**, Ministry of Science and ICT & National IT Industry Promotion Agency, *Won 300M KRW*, 2023.05

Skills

Languages: Korean (Native), English (Professional).

Programming: `Python`, `C++`, `MATLAB`.

Academic Services

Reviewers for: CVPR (2023, 2024),
ECCV (2024),
NeurIPS (2023).