Seung Hyun Lee

CONTACT INFORMATION

Seung Hyun Lee
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RESEARCH BACKGROUND

- **Multimodal Representation Learning**

- **Sound to Visual Synthesis**

SELECTED PUBLICATIONS

1. **Seung hyun Lee**, Chanyoung Kim, Wonmin Byeon, SangHo Yoon, Jinkyu Kim*, Sangpil Kim*, "LISA: Localized Image Stylization with Audio via Implicit Neural Representation", (Under review).

2. **Seung hyun Lee**, Chanyoung Kim, Wonmin Byeon, Gyeongrok Oh, Jooyoung Lee, SangHo Yoon, Jinkyu Kim*, Sangpil Kim*, "Robust Sound-Guided Image Manipulation", (Under review, **TPAMI**).

3. **Seung hyun Lee**, Gyeongrok Oh, Wonmin Byeon, Chanyoung Kim, Won Jeong Ryoo, Sang Ho Yoon, Jihyun Bae, Jinkyu Kim*, Sangpil Kim*, "Sound-Guided Semantic Video Generation", European Conference on Computer Vision (**ECCV**), 2022.

4. **Seung hyun Lee**, Wonseok Roh, Wonmin Byeon, SangHo Yoon, Chanyoung Kim, Jinkyu Kim*, Sangpil Kim*, "Sound-Guided Semantic Image Manipulation", Computer Vision and Pattern Recognition (**CVPR**), 2022.

5. Jung, Minjoon, **Seunghyun Lee**, Eun Seon Sim, Min Ho Jo, Yu Jin Lee, Hye Bin Choi, and Junseok Kwon. "Stagemix video generation using face and body keypoints detection." Multimedia Tools and Applications (2022): 1-12.

6. **Seung hyun Lee** *et. al,.* "Sound-Guided Semantic Image Manipulation". *CtrlGen Workshop at NeurIPS*, 2021.

7. **Seung hyun Lee** *et. al,.* "Audio-Guided Image Manipulation for Artistic Paintings". *Machine Learning for Creativity and Design Workshop at NeurIPS*, 2021.

EDUCATION

- **Korea University**, Seoul, Korea · 2022.3–2024.2 (expected)
  Master Degree in Department of Artificial Intelligence, GPA: **4.0 /4.0**.

- **University of Seoul**, Seoul, Korea · 2016–2022
  Master Degree in Department of Artificial Intelligence, GPA: **3.6/4.0**.

TECHNICAL SKILLS

- *Programming Languages*: Python, C/C++, Java.

- *Technical Softwares*: PyTorch, TensorFlow

RESEARCH EXPERIENCE

- **Korea University Computer Vision Lab** · 2021.3–2024.2 (expected)
  Dept. of Artificial Intelligence, Korea University.

- **Naver Papago Computer Vision Lab** · 2020–2021
  Naver Papago Machine Learning Engineer (Computer Vision), Naver Corp.

- **Yonsei University Severance Hospital CCIDS** · 2019–2020
  Medical AI researcher at Yonsei University Severance Hospital CCIDS.

PATENTS

- **Seunghyun Lee** *et. al,.* "Image Quality Improvement Appratus Using Artificial Neural Network". *Korea* 1020200021991, filled 20.02 issued 21.09.