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RESEARCH BACKGROUND	<ul style="list-style-type: none"> • Multimodal Representation Learning • Sound-Guided Visual Synthesis 	
SELECTED PUBLICATIONS	<ol style="list-style-type: none"> 1. Seung hyun Lee, Sieun Kim, Innfarn Yoo, Feng Yang, Donghyeon Cho, Youngseo Kim, Huiwen Chang, Jinkyu Kim*, Sangpil Kim*, “Soundini: Sound-Guided Diffusion for Natural Video Editing”, (Under review). 2. 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). 3. 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). 4. 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. 5. 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. 6. 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” <i>Multimedia Tools and Applications</i> (2022): 1-12. 7. Seung hyun Lee et. al.,. “Sound-Guided Semantic Image Manipulation”. <i>CtrlGen Workshop at NeurIPS</i>, 2021. 8. Seung hyun Lee et. al.,. “Audio-Guided Image Manipulation for Artistic Paintings”. <i>Machine Learning for Creativity and Design Workshop at NeurIPS</i>, 2021. 	
COLLABORATORS	<ul style="list-style-type: none"> • Google Research: Innfarn Yoo, Feng Yang, Huiwen Chang • Nvidia Research: Wonmin Byeon 	2023.12–2024.2 2022.9–2023.11
EDUCATION	<ul style="list-style-type: none"> • Korea University, Seoul, Korea M.S in Department of Artificial Intelligence, GPA: 4.0/4.0. • University of Seoul, Seoul, Korea B.S in Department of Computer Science, GPA: 3.6/4.0. 	2022.3–2024.2 (expected) 2016–2022
TECHNICAL SKILLS	<ul style="list-style-type: none"> • <i>Programming Languages:</i> Python, C/C++, Java. • <i>Technical Softwares:</i> PyTorch, TensorFlow 	
RESEARCH EXPERIENCE	<ul style="list-style-type: none"> • Korea University Computer Vision Lab Dept. of Artificial Intelligence, Korea University. • Teaching Assistant - Korea University Coarse: Machine Learning. • Naver Papago Computer Vision Lab Naver Papago Machine Learning Engineer (Computer Vision), Naver Corp. • Yonsei University Severance Hospital CCIDS Medical AI researcher at Yonsei University Severance Hospital CCIDS. 	2021.3–2024.2 (expected) 2023.3–2023.6 2020–2021 2019–2020
PATENTS	<ul style="list-style-type: none"> • Seunghyun Lee et. al.,. “Image Quality Improvement Apparatus Using Artificial Neural Network”. <i>Korea</i> 1020200021991, filed 20.02 issued 21.09. 	