

Statistical Inference and Information Theory Lab (SIIT)	Contact information Professor : Junmo Kim TEL : 042-350-8088 Lab. : N1 214 TEL : 042-350-8088 Website : siit.kaist.ac.kr
Current state of the Lab. (in 2024 Fall Semester) Postdoctoral Fellows : 1 PhD Students: 27 Master's Student: 6	
Research Areas <ul style="list-style-type: none">Generative Models(CVPRW22, CVPR23, WACV24, ECCV24)Trustworthy AI(CVPR23, ICCV23, AAAI24)Human Pose Estimation & Reconstruction (ICCV21, CVPR23 FG23, ICCVW23)Representation Learning (NeurIPS22, AAAI23, ICML24)Object Detection (AAAI24)Continual Learning (ECCV22)Depth Estimation (ICRA23, ICRA23, ICASSP24)Domain Adaptation/Generalization (ICRA22)3D/4D visionAugmentation StrategyNatural Language Processing <p>In addition to the main research areas mentioned above, students are encouraged to explore and develop their own topics, with active collaboration across various research areas.</p>	 <p>The posters illustrate research in three areas: 1. Generative Models: Includes domain translation (CVPR 2023) showing face and landscape images, overcoming data bias (WACV 24) with biased/unbiased portraits, and dataset-based 4D generation (ECCV24) with a 3D model and camera path. 2. Trustworthy AI: Shows a model inversion attack (CVPR 2023) with training data, target, and attacker components, and a vulnerability measure of gradient inversion attack (AAAI 2024) with various model and dataset icons. 3. Multimodal Representation Learning: Features image-text augmentation (NeurIPS 2022) with a diagram of text-image relationships and video-audio equivariance (ICML 2024) with a diagram of audio-visual processing.</p>
Recommended courses & Career after graduation <p>Recommended courses: AI & Computing course</p> <p>Career after graduation</p> <ul style="list-style-type: none">- Industry: LG AI Research, Hyundai Motors, Samsung Research, SAIT, NAVER CLOVA, LG Energy Solution etc.- Academia: Yonsei University, Ajou University, KNU, HBNU	Introduction to other activities besides research <ul style="list-style-type: none">Birthday party(monthly)MT, Various activities(movie, ping-pong, ...)
Introduction to the Lab. <p>Students are encouraged to freely explore their research interests in an open and supportive environment, with access to high-performance GPU systems to fully support their research activities. In addition to regular seminars, students form study groups to explore specific topics and hold short-term sessions. Joint research projects with other labs are facilitated through partnerships with alumni professors. Furthermore, we encourage internships at renowned research institutes such as Meta, Microsoft, LG AI Research, NAVER, SAIT, and ETRI, helping students grow into leading AI researchers.</p>	
Recent research achievements ('22~'24) <p>2024: NIPS 2, EMNLP 2, CVPR 1, ECCV 2, ICML 1, AAAI 3, WACV 2, ICASSP 1, INTERSPEECH 1</p> <p>2023: CVPR 3, ICCV 2, AAAI 1, ICRA 2, WACV 1, ICIP 3</p> <p>2022: NeurIPS 1, ECCV 2, IROS 2, UAI 1, ICIP 2, CVPR 1, ICRA 1, WACV 1, ACSAC 1</p>	