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Current state of the Lab. (in 2025 Spring Semester) Postdoctoral Fellows : 2 PhD Students: 11 Master's Student: 10	
Research Areas Diffusion Model (Diffusion-based video/image generation and editing)  <p>(a) Single Step Diffusion (Ours) (b) Diffusion-based Video Editing (c) Diffusion-based Image Editing (d) Virtual try-on</p> <p>Figure 1. Illustrations of (a) diffusion process and Its applications including (b) video editing, (c) image editing, and (d) virtual try-on</p>	
Large Language Model, Speech, and Audio Processing (LLM, RLHF, Multimodal Mamba, TTS)  <p>(a) Context constancy in Dialogue LLM (b) Mamba-based Multimodal Processing (c) Universal Guidance for TTS models</p> <p>Figure 2. Illustrations of (a) Context-consistent image generation(b) Multimodal processing (c) TTS Universal Guidance</p>	
Reinforcement Learning (Offline RL, VLM-based RL, Robot mainpulation)  <p>(a) Reinforcement Learning (b) Reinforcement Learning with VLM (c) Robotic Manipulator</p> <p>Figure 3. Illustrations of (a) Reinforcement Learning and (b) RL with VLM and (c) Robotic manipulator</p>	
Recommended courses & Alumni Courses: Signal and System, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision Alumni: Prof (고려대, 중앙대), Google, Deepmind, Samsung, LG, KT, Qualcomm, Kakao brain, Naver, start-up companies	Introduction to other activities besides research 
Recent research achievements ('23~'25 AI Publications:) [1] 2025: 13 papers (ICML 3, ICLR 2, CVPR, TPAMI, IROS, ICASSP 2, INTERSPEECH2, TASLP, ...) [2] 2024: 28 papers (NeurIPS, ICML 2, ICLR 3, ECCV 4, IROS 2, ACL, CVPR, AAAI, ICASSP 4, INTERSPEECH, Nature Reviews Cardiology, JSTSP, TMLR, ...) [3] 2023: 20 papers (ICLR 2, ACL 3, ICCV 1, EMNLP 2, IROS 1, INTERSPEECH 1, ICASSP 1, TPAMI 1, Advanced Materials 1, Bayesian Analysis 1, ...)	