COURSE DETAIL

VISION GENERATION RESEARCH REVIEW
Country Korea, South
Host Institution Yonsei University
Program(s) Yonsei University
UCEAP Course Level Graduate
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 205
UCEAP Course Suffix
UCEAP Official Title VISION GENERATION RESEARCH REVIEW
UCEAP Transcript Title VISION GENRTN RSRCH
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course develops critical thinking and precise research paper writing skills related to the era and field of visual generative models.

Topics include generating images, videos, 3D and 4D NeRFs, depth-driven pose-preserved image generation for any objects, 4D reconstruction from a single video, classifier protected sampling for guarding training data during diffusion, sparse surface reconstruction using local geometry priors, mixture of efficient diffusion experts through automatic interval and sub-network selection, and exact volumetric ellipsoid rendering for real-time view synthesis.

Each week consists of a lecture, discussion, and writing and critiquing reviews in a collaborative setting. Writing topics include understanding style, actions, characters, cohesion and coherence, emphasis, motivation, global coherence, concision, shape and ethics

Language(s) of Instruction
English

Host Institution Course Number
AAI5018

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Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

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