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

Host Institution Course Title

VISION GENERATION RESEARCH REVIEW

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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