# 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 Campus**

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**

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