COURSE DETAIL

DEEP LEARNING FOR VISUAL UNDERSTANDING
Country Korea, South
Host Institution Korea Advanced Institute of Science and Technology (KAIST)
Program(s) Korea Advanced Institute of Science and Technology, KAIST
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 130
UCEAP Course Suffix
UCEAP Official Title DEEP LEARNING FOR VISUAL UNDERSTANDING
UCEAP Transcript Title DEEP LRNG VISUAL UN
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course covers machine learning techniques to analyze visual data. Specifically, this course focuses on fundamental machine learning and recent deep learning methods that are widely used in visual data analysis and discusses how these methods are applied to solve various problems with visual data. This course consists of lectures, practices, and projects.

Topics include Introduction to CV/DL, Convolutional neural networks, Training, optimization, data, Few-shot learning, Object detection and segmentation, RNNS, Domain adaptation, Multimodal learning, Deployment.

Prerequisite: Basic knowledge of Python

Language(s) of Instruction
English

Host Institution Course Number
EE.40034

Host Institution Course Title
DEEP LEARNING FOR VISUAL UNDERSTANDING

Host Institution Course Details
https://sugang.kaist.ac.kr/com/cmsv/FileCtr/fileDefaultDownload.do

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2025-2026

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