COURSE DETAIL

MULTI-MODAL MACHINE LEARNING
Country China
Host Institution Tsinghua University
Program(s) Tsinghua University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Computer Science
UCEAP Course Number 172
UCEAP Course Suffix
UCEAP Official Title MULTI-MODAL MACHINE LEARNING
UCEAP Transcript Title MULTI-MODAL MACHINE
UCEAP Quarter Units 3.00
UCEAP Semester Units 2.00

Course Description

With the development of Internet, multimedia data have become increasingly accessible, such as images, audios, videos, texts, etc.; the advances of artificial neural networks (e.g. large multi-modal model GPT4) have also made multimodal fusion a general trend in Al. This course covers applications including image/video processing generation, audio/ speech processing and generation, natural language processing and generation. It introduces popular signal processing and machine learning techniques in the artificial intelligence field, such as data representation, data compression, sequence models, data synthesis, multimodal fusion, etc. Through lectures and course projects, students learn about the features of different signals, and their common ground.

Language(s) of Instruction
English

Host Institution Course Number
40470492

Host Institution Course Title
MULTI-MODAL MACHINE LEARNING

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2023-2024

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