COURSE DETAIL

ADVANCED COMPUTER VISION

Country
Taiwan

Host Institution
National Taiwan University

Program(s)
National Taiwan University

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
120

UCEAP Course Suffix

UCEAP Official Title
ADVANCED COMPUTER VISION

UCEAP Transcript Title
ADV COMPUTER VISION

UCEAP Quarter Units
4.50

UCEAP Semester Units
3.00

Course Description

The course examines the concepts and theories of computer vision and introduces their application. The course entails research on the algorithm and computing architecture and completion of a software simulation. The course covers: image formation; image processing; feature detection and matching; segmentation; feature-based alignment; structure from motion; dense motion estimation; computational photography; stereo correspondence; 3D reconstruction; and recognition.

Language(s) of Instruction
Chinese

Host Institution Course Number
CSIE7421

Host Institution Course Title
ADVANCED COMPUTER VISION

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Computer Science and Information Engineering

Print