# COURSE DETAIL

| ADVANCED COMPUTER VISION |
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| **Country**<br>Taiwan |
| **Host Institution**<br>National Taiwan University |
| **Program(s)**<br>National Taiwan University |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Computer Science |
| **UCEAP Course Number**<br>120 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>ADVANCED COMPUTER VISION |
| **UCEAP Transcript Title**<br>ADV COMPUTER VISION |
| **UCEAP Quarter Units**<br>4.50 |
| **UCEAP Semester Units**<br>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 Course Details**
http://nol.ntu.edu.tw/nol/coursesearch/print_table.php?course_id=922%20U3910&cl...

**Host Institution Campus**

**Host Institution Faculty**

**Host Institution Degree**

**Host Institution Department**
Computer Science and Information Engineering

**Course Last Reviewed**
2022-2023

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