Australian National University | PROGRAMS AND COURSES

PROGRAMS AND COURSES / COURSES / ENGN6528 / FIRST SEMESTER / 2

CLASS SUMMARY | BACK TO COURSE DETAILS

Computer Vision

A Postgraduate course offered by the **School of Engineering**.

ENGN6528

CLASS NUMBER 2363 TERM CODE 3330

CLASS INFO

Unit Value
6 units

Mode of Delivery
In Person

COURSE CONVENER
Dr Miaomiao Liu

CLASS DATES

Class Start Date
20/02/2023

Class End Date
26/05/2023

Census Date
31/03/2023

Last Date to Enrol
27/02/2023

TUTOR
Hoang Nguyen
Huiyu Gao

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TUTOR
Hoang Nguyen
Huiyu Gao
Jinguang Tong
Sichao Li
Xinlei Niu

Overview | Assessment | Submission | Contacts

Assessment Requirements

The ANU is using Turnitin to enhance student citation and referencing techniques, and to assess assignment submissions as a component of the University's approach to managing Academic Integrity. For additional information regarding Turnitin please visit the Academic Skills website. In rare cases where online submission using Turnitin software is not technically possible; or where not using Turnitin software has been justified by the Course Convener and approved by the Associate Dean (Education) on the basis of the teaching model being employed; students shall submit assessment online via 'Wattle' outside of Turnitin, or failing that in hard copy, or through a combination of submission methods as approved by the Associate Dean (Education). The submission method is detailed below.

Moderation of Assessment

Marks that are allocated during Semester are to be considered provisional until formalised by the College examiners meeting at the end of each Semester. If appropriate, some moderation of marks might be applied prior to final results being released.

Assessment Task 1

CLAB1

Value: 10 %
Due Date: 26/03/2023
Learning Outcomes: 1,3,4,6,7

Coding practice, and coding assignment, report for image processing. Students will work on coding based questions and write a report to analysize the results including figures and plots. The first lab assignment will focus on basic image processing, including reading images, image histogram equalisation, filtering and geometric transformations

Assessment Task 2

CLAB2

This clab assignment is mainly about coding using pytorch for deep neural networks. Student will be required to design and train a neural network for classification tasks.

Value: 10 %
Due Date: 30/04/2023
Learning Outcomes: 1,3,4,6,7

Assessment Task 3

CLAB3

This Clab assignment is about 3D vision. Students are required to work on a camera calibration task, homography estimation and two view image warping.

Value: 10 %
Due Date: 21/05/2023
Learning Outcomes: 1,3,4,6,7

Assessment Task 4

Assignment

This is to let the student work on a small project using the learned image processing, middle and high level vision techniques and 3D vision basics.

Value: 15 %
Due Date: 14/05/2023
Learning Outcomes: 1,2,3,4,5,6,7

Assessment Task 5

Final Exam

Value: 55 %
Learning Outcomes: 3,6,7