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Semester 1, 2021

Changjae Oh

Course Overview

Unit 1: Early vision / Low-level vision

Introduction / Camera / Restoration / Feature detection

Unit 2: Mid-level vision Assignment Project Exam Help

 Fitting / Grouping / Calibration / Epipolar /Stereo matching https://powcoder.com

Unit 3: Mid-/High-level vision Add WeChat powcoder

Tracking / Recognition / Detection

Unit 4: Deep learning for computer vision

Introduction / Loss / Backpropagation / CNN / Deep learning with practice

Course Overview

Unit 1: Early vision / Low-level vision

- Introduction / Camera / Restoration / Feature detection
- Lab1: Setting up image/video representation in Python
- CT1: Early vision / Low-level vision

Unit 2: Mid-level vision Assignment Project Exam Help • Fitting / Grouping / Calibration / Epipolar / Stereo matching

- **Lab2**: Restoration and features
- CT₂: Mid-level vision

https://powcoder.com

Unit 3: Mid-/High-level visionAdd WeChat powcoder

- Tracking / Recognition / Detection
- Lab3: Fitting and grouping
- Lab4: Tracking and detection + In-lab assessment
- CT₃: Mid-/High-level vision

Unit 4: Deep learning for computer vision

- Introduction / Loss / Backpropagation / CNN / Deep learning with practice
- Coursework report submission (Deadline: 23:59, 21st December 2021, UK time)
- **CT4**: Deep learning for computer vision

Course Details – Module Delivery

- Blended Teaching How?
 - Lectures
 - = **50%** live lectures + **50%** recorded lectures

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Thur	3	16:35-17:20
(3-535)	4	17:25-18:10

Course Details – Module Delivery

- Blended Teaching How?
 - Recorded Lectures
 - To deliver the content in detail
 - Live lectures
 - Review the past content + Assignment Project Exam Help

BUPT	Week	3	4	5	6	7	ittps	:// _s po	ОЖС	odei	.cor	n ₁₃	14	15	16
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Thur	3	16:35-17:20					
(3-535)	4	17:25-18:10					

Course Details – Recorded Lectures

Recorded Lectures

- Recorded Lectures
 - To deliver the content in detail
 - Students should take the recorded lecture before the next live session Assignment Project Exam Help

BUPT	Week	3	4	5	6	7	ittps	:// ₉ po	ОЩС	oder	.cor	n ₁₃	14	15	16	
W	/c	13-Sep	20-Sep	27-Sep	4-Oct	11-Oct		25-Oct	1-Nov		15-Nov		29-Nov	6-Dec	13-Dec	
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Topics			Unit 1				Unit 2			Unit 3			Unit 4			

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Course Details – Live Lectures

Live lectures

- Brief review about past recorded lectures
- Interactive sessions using Mentimeter
 - Going through exercises together + Q&A Assignment Project Exam Help

BUPT	Week	3	4	5	6	7	ittps	:// ₉ po	DWC	oder	.cor	n ₁₃	14	15	16	
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Thur	3	Rec	Live	Tut		Live	Live	Tut	Live	Live	Tut	Live	Live	Tut		
11101	4	Rec	Live	ОН		Live	Live	ОН	Live	Live	ОН	Live	Live	ОН		
La Class	•			CT1			L1	CT2	L2		L3/CT3		L4	CT4		
Тор	oics		Unit 1				Unit 2			Unit 3			Unit 4			

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Labs

- 4 times: 8th, 10th, 12th, 14th BUPT week
 - Tuesday afternoon, (13:00 14:35)
 - 科研楼 on main (Xitucheng) campus
 - Telecom_M_Y4_G1 (Room 116), Telecom_M_Y4_G2 (Room 120)
 Assignment Project Exam Help

BUPT Week		3	4	5	6	7	ittps	:// ₉ po	ОЩС	oder	.ÇQI	n ₁₃	14	15	16	
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	4	Rec	Live	ОН		Live	Live	ОН	Live	Live	ОН	Live	Live	ОН		
Labs/ Class Tests				CT1			L1	CT2	L2		L3/CT3		L4	CT4		
Topics		Unit 1				Unit 2			Unit 3			Unit 4				

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Assessment

- Exam (80%)
 - One written exam
- Coursework (20%)
 Assignment Project Exam Help
 - Individual coursework (15%)
 - Development of computer vision https://powcoder.com
 - Python and OpenCV

- In-class tests (5%)
 - Test to be done in each office hour (Four in-class tests)
 - Each test covers each unit's content
 - Easy questions using QMPlus
 - Top 2 marks (out of 4 tests) will be counted. (2.5% each)
 - Absence will be marked as zero (NO excuse of your absence will be accepted)

Assessment – Individual Coursework (1/3)

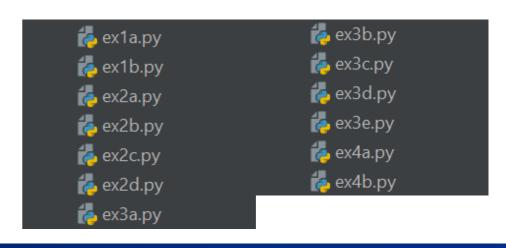
- In-lab assessment (30% of individual coursework)
 - During the Lab4 hours
 - Assessment of your coursework covered in Lab1-3

Assignment Project Exam Help

- Report (70% of individual coursework)

 https://powcoder.com
 use the provided layout, with provided guideline

 - at the end of the semester (Dedd) Wee Chat December (2)
- Code
 - One .py code to each problem
 - Zero mark will be given if the result is not reproducible
 - Zero mark will be given if any unauthorized library is used



Assessment – Individual Coursework (2/3)

- In-lab assessment (30%)
 - will be evaluated by
 - 1) running the implemented codes,
 - 2) checking during the in-lab assessment: the understanding of the tasks with a short conversation with a TAAssignment Project Exam Help

https://powcoder.com

Report (70%)

- will be evaluated based on
 - 1) the quality of the analysis
 - 2) the discussion of the results obtained in the coursework tasks

Assessment – Individual Coursework (3/3)

- Dataset
 - A dataset provided from this module (image + video)
 - → Quantitative assessment
 - A dataset collected by yourself (image + video)
 → Qualitative assessment Project Exam Help

https://powcoder.com

Assessment – Coursework Submission@ QMplus

• Submit 1) your report and 2) zip file to the QMplus.

Deadline: 23:59, 21th Dec 2021 UK time

- QMplus submission example:
 - EBU7240_CHANGJAE_OH_1711XXXXX.pdf
 - EBU7240_CHANGJAE_OH_1711XXXXX.zip
- The zip file will contain the following folders: Exam Help

- Name the zip file you submit as: <EBU7240_FIRSTNAME_FAMILYNAME_QMSTUDNETNUMBER>.zip
- Max size of the zip file: **50M**
- The outputs of your implementations should be generated in the \results directory
 - No need to submit the outputs of your code (we will reproduce them!), just make the \results directory

In-class Test

- Four in-class tests
 - To be done in each office hour
 - Less than 20 min
 - Students should be in the classroom (Scores will be accepted **ONLY WHEN attendance is recorded**)
 - Easy online-test using Assignment Project Exam Help
 - Each test covers each unit's content ps://powcoder.com
 - Questions for Telecom_M_G1 and Telecom_M_G2 will be different
 - For a fairness issues, ONLY the padddmwcedinthplive cerdien will be covered (with modification)
 - Top 2 marks will be counted. (2.5% each)
 - Absence will be marked as zero
 - Any excuse of your absence will NOT be accepted

Office Hours

- When?
 - During office hours (OH), but after the class test (<20 min)
- Where?
 - MS Teams

- Assignment Project Exam Help
- I will post the meeting link through QMPlus
- Anyone can drop in with his/her https://panysacdentandhave a video meeting

A few tips – Exam

- Define, define, define!
 - ex) EBU6230- Image Video processing
 - i) By using erosion and dilation operators, give the mathematical representation of morphological opening and morphological structural problems of morphological opening and morphological structural problems.

https://powcoder.com
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A few tips – Coursework

- There are several traps to prevent your plagiarism
 - Don't copy others
 - You'll need to create your own dataset

– ex)



Assignment Project Exam Help

https://powcoder.com

By the end of this module, you will

- understand fundamental tasks involved in computer vision tasks
- understand the principle of deep learning in computer vision

Assignment Project Exam Help

- become familiar with
- https://powcoder.com

 the various important techniques in computer vision tasks
- Add WeChat powcoder Python and OpenCV