

Machine perception

Practicum



Assistants

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Rules

- 6 assignments (one every two weeks)
 - Mandatory tasks (75 points)
 - Modifiers
 - Optional assignments (extra points, up to 100 total)
 - Poor defense (negative points)
 - Late presentations (score penalty 0.75)
 - Joker week (score penalty 0.75)

Assignments

- Assignments in Python
 - Local install or Google Colab
 - Jupyter is ok
- Each assignment must be defended with the assistant
- Assignments must be submitted to e-classroom before the defense
 - *.py source files in a zip file
- The deadline is Monday morning
- Plagiarism will be punished

Consultations

- Scheduled every other week
- Online only
- The assistant will be available for questions
- Common problems or bugs will be addressed
- Student interaction is required (i.e. you must ask specific questions)

Defense

- 5 minutes per person
- Prepare the presentation of your solutions beforehand
 - i.e. run slow computations before the presentation
- The assistant will pose some questions about your solution
- The questions might be open-ended or theoretical as well

Exercises at a glance

Exercise 1 - Basic image processing, histograms (10. 10.)

Exercise 2 - Recognition with histograms, convolution (24. 10.)

Exercise 3 - Edge detection, Hough transform (7. 11.)

Exercise 4 - Homography, feature matching (21. 11.)

Exercise 5 - Epipolar geometry and triangulation (5. 12.)

Exercise 6 - Image subspaces (19. 12.)

Joker week (9. 1.)

Week overview

Week #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Available		1		2		3		4		5		6	holidays		
Defense			1			2		3		4		5		6	J
Late defense					1		2		3		4			5	6