

Computational Vision | Master Artificial Intelligence

2022-2023 | Autumn

Mandatori - 5 ECTS (125 student work hours)

Schedule: Tuesday

Masterclass: 14:00-15.30h (Room: B3)

Laboratories: (Room: IF)

Grup 1: 15:30-17:00 (Carles)

Grup 2: 17:00-18:30h (Alfons)

Teachers/Mentors

Laura Igual (ligual@ub.edu)

Petia Ivanova Radeva (petia.ivanova@ub.edu)

Carles Hernández (carles.hernandez2@bsc.es)

Alfons Marques (amarquescancio@gmail.com)

Color legend

Non lective day

Masterclass, Laboratories

Exam

Deliverables

Calendar								Teacher	W	Masterclass Topic	Laboratory Topic	Continuous Evaluation
Mo	M	T	W	T	F	S	S					
Spt.		19	20	21	22	23	24	Laura	1	Presentation	IN Introduction to python, Scikit-learn and related tools	-
Oct.	25	26	27	28	29	30	1	-	-	-	-	-
	2	3	4	5	6	7	8	Laura	2	Image Filtering	B1 Image Processing	No
	9	10	11	12	13	14	15	Laura	3	Edge detection	Edge detection	No
	16	17	18	19	20	21	22	Laura	4	Image Features: HOG & SIFT	B2 HOG for Person detection	Yes, B1
	23	24	25	26	27	28	29	Laura	5	Face detection & Face Recognition	Matching with SIFT	No
Nov.	30	31	1	2	3	4	5	-	-	-	-	-
	6	7	8	9	10	11	12	Laura	6	Object recognition by BOW	B3 Face detection (Adaboost)	Yes, B2
	13	14	15	16	17	18	19	Petia	7	Classification with CNNs	BOW	No
	20	21	22	23	24	25	26	Petia	8	Detection with CNN	B4 Classification with CNNs (Mnist, faces, food)	Yes, B3
Dec.	27	28	29	30	1	2	3	Petia	9	Detection with CNN & Transformers	Yolo	No
	4	5	6	7	8	9	10	Petia	10	Hand-crafted Segmentation	B5 Hand-crafted Image Segmentation	Yes, B4
	11	12	13	14	15	16	17	Petia	11	Transfer learning, Semantic segmentation	Semantic and instance Segmentation by Unet	No
	18	19	20	21	22	23	24	Petia	12	Expositions	EX Expositions	Yes, B5
Jan.	25	26	27	28	29	30	31					
	1	2	3	4	5	6	7					
	8	9	10	11	12	13	14					
	15	16	17	18	19	20	21					

Christmas