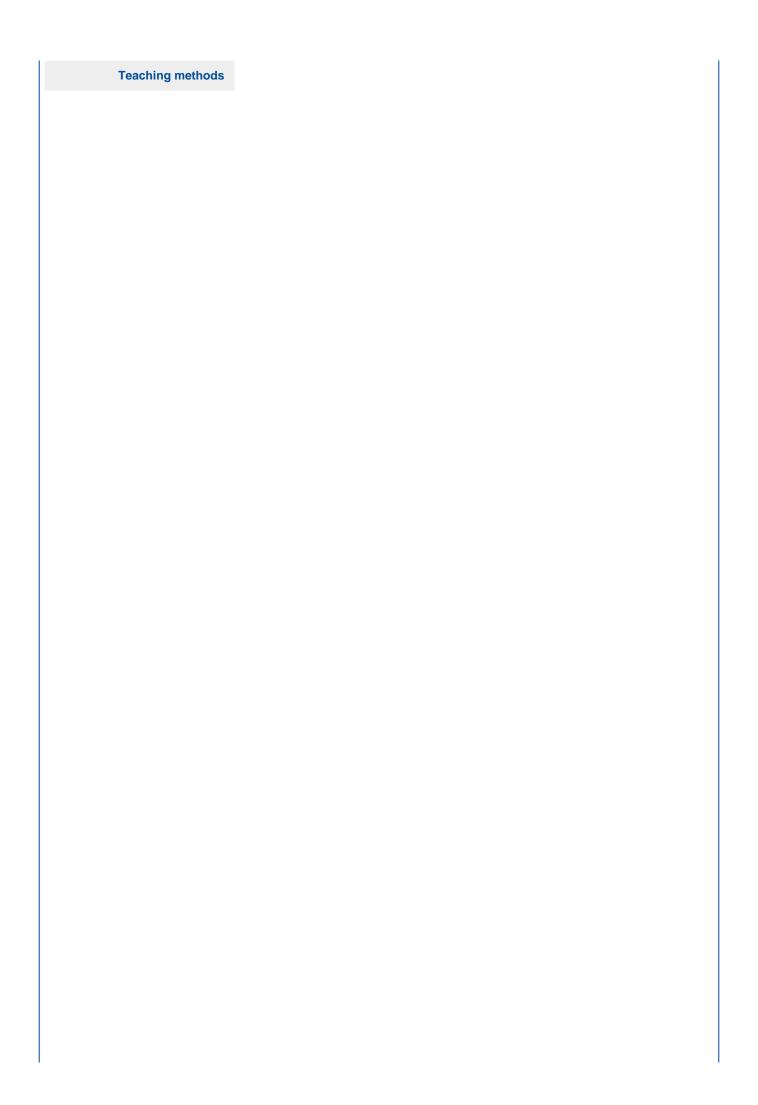
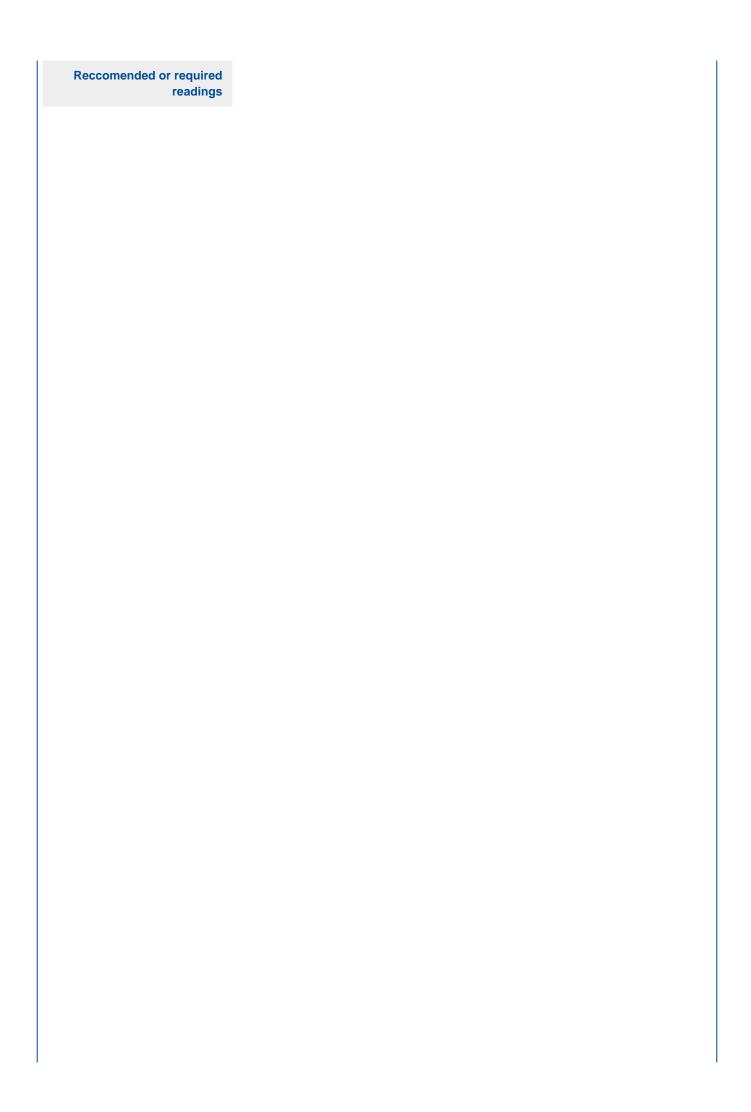


Anno Accademico 2021/2022

COMPUTER VISION		
Enrollment year	2020/2021	
Academic year	2021/2022	
Regulations	DM270	
Academic discipline	ING-INF/05 (DATA PROCESSING SYSTEMS)	
Department	DEPARTMENT OF ELECTRICAL, COMPUTER AND BIOMEDICAL ENGINEERING	
Course	COMPUTER ENGINEERING	
Curriculum	Embedded and Control Systems	
Year of study	2°	
Period	1st semester (27/09/2021 - 21/01/2022)	
ECTS	6	
Lesson hours	60 lesson hours	
Language	English	
Activity type	WRITTEN AND ORAL TEST	
Teacher	LOMBARDI LUCA (titolare) - 5 ECTS ALDEA EMANUEL - 1 ECTS	
Prerequisites	Basic knowledfe of computer science	
Learning outcomes	The student will be able to consider broblems related to artificial vision. In particula probles related feature analisys and pattern recognition.	
Course contents	Basic definitions. Low-level image analysis methods, including image formation, edge detection, feature detection, and image segmentation. 3D Vision and motion analysis Object recognition Recognition Processes. Direct Comparison. Alignment methods. Invariant properties methods. Parts decompositions method. Hough transform. Mathematical morphology	

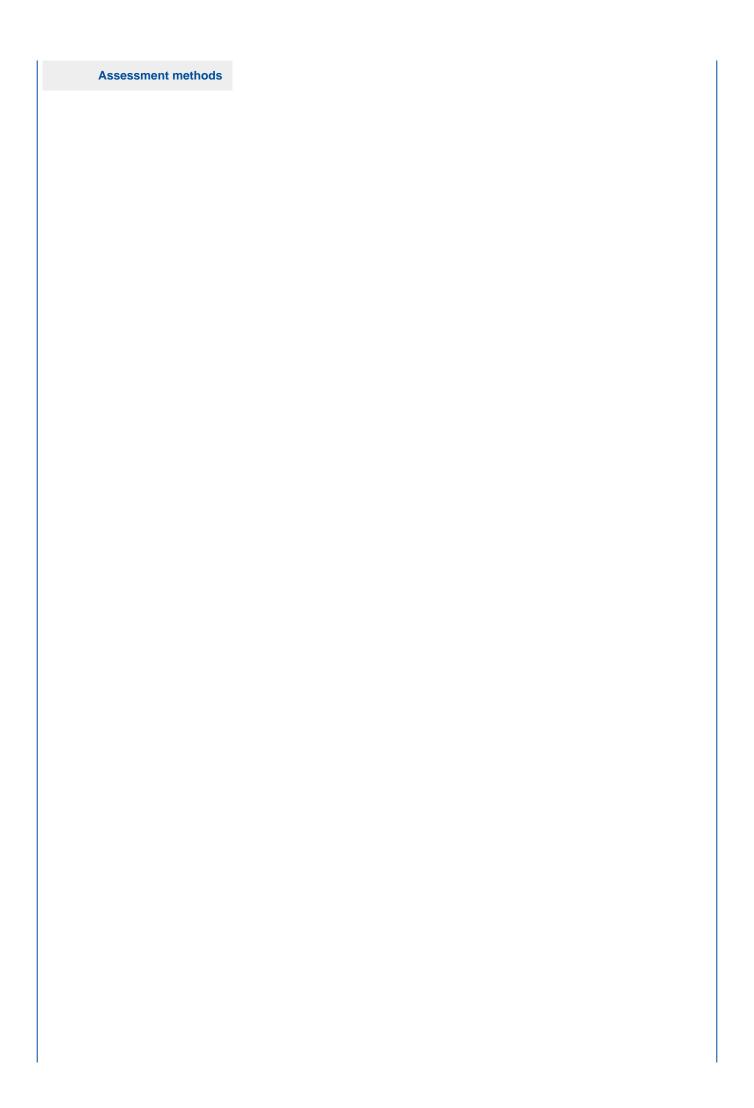


Le	ectures conducted using presentations projected on screen (available students) and insights using the chalkboard.

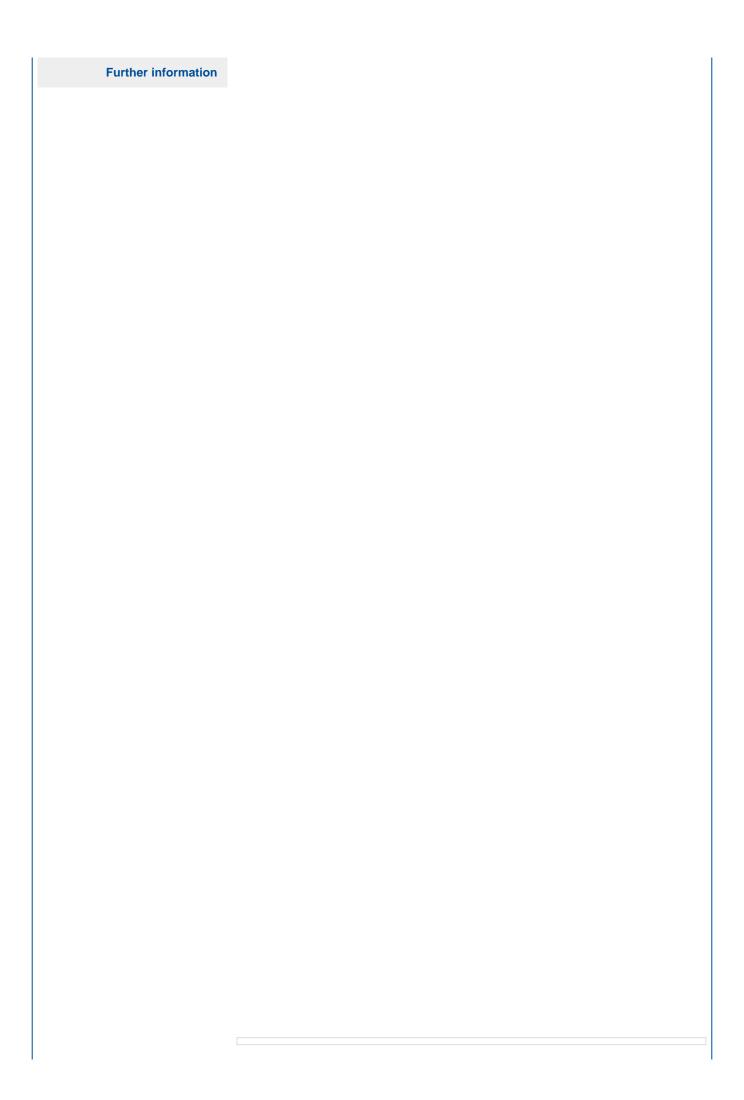


Slides of the lessons.

3C Vision: Cues, Context and Channels, Virginio Cantoni, Stefano Levialdi, Bertrand Zavidovique, Elsevier 2011



An oralexamination and the discussionof a projectrelatedto a topicof the course



Sustainable development goals - Agenda 2030

\$lbl legenda sviluppo sostenibile