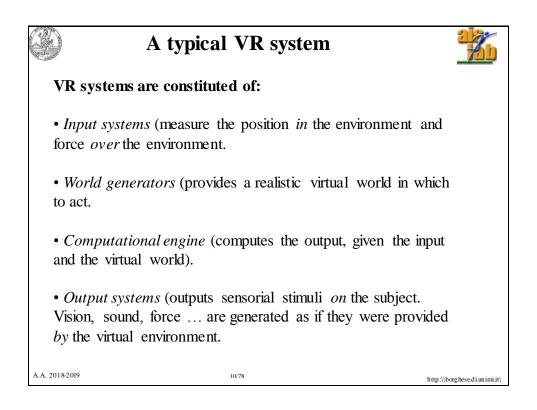
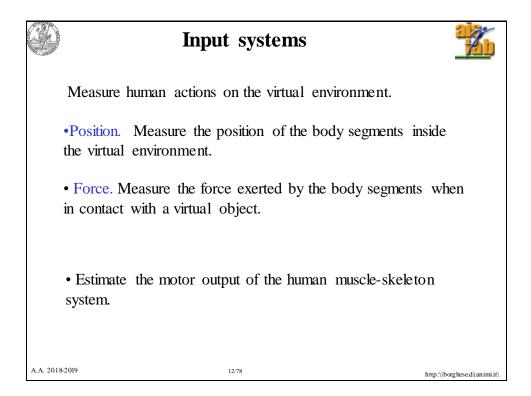
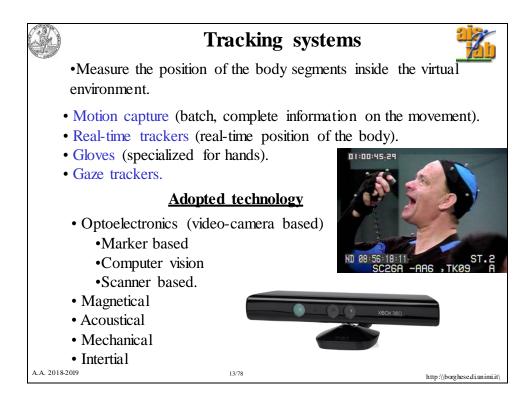


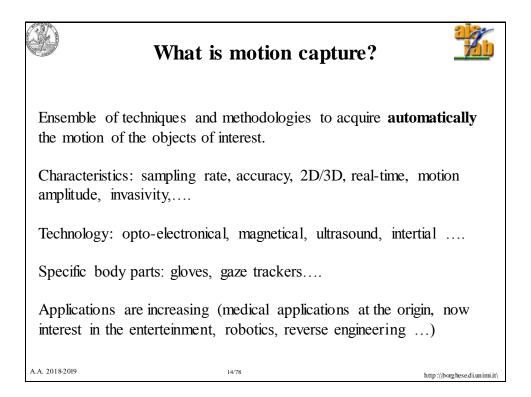
	Virtual Reality Sy	stems	
Imn	eteristics are: nersivity. ractivity.		
VR should In a coordir	be able to stimulate the huated way.	ıman sensorial syster	ms
VR output	should be able to saturate	our sensor systems,	congruently.
A.A. 2018-2019	9/78		http://borghese.diunimi.it/

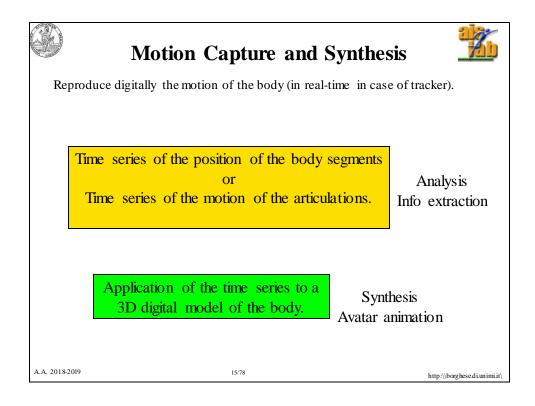


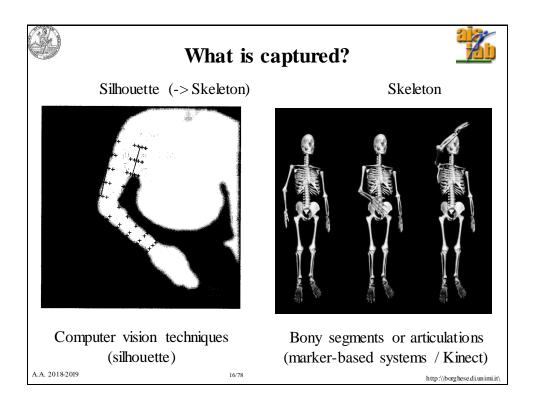


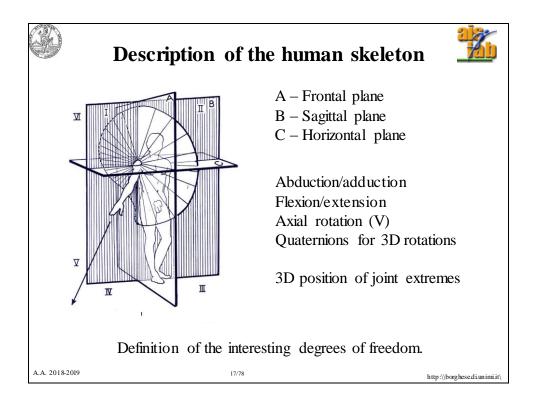


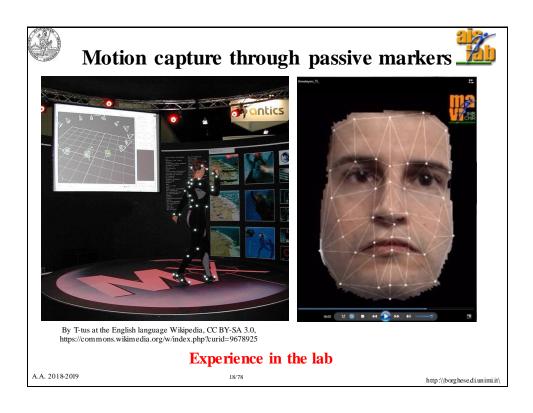


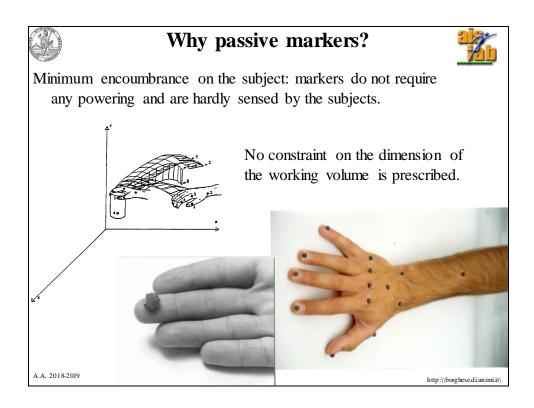


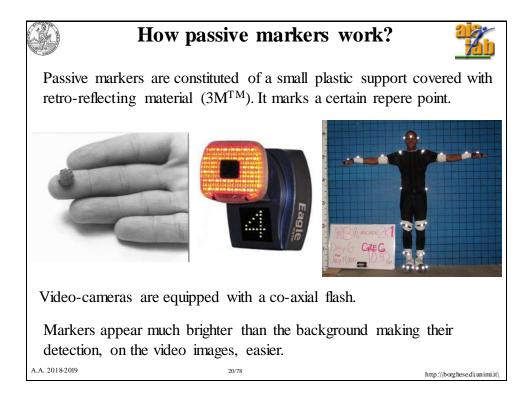




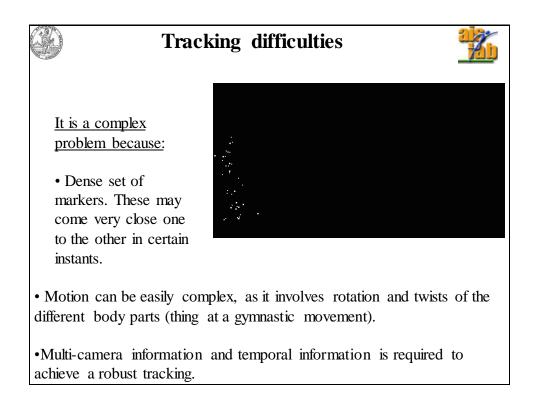


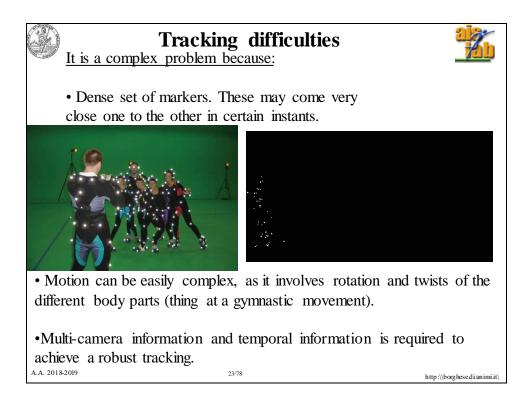












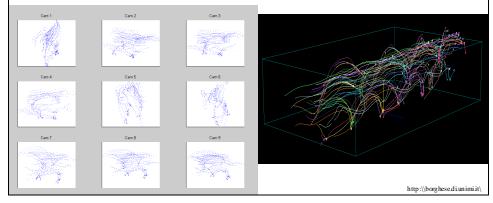
	Sequential processi	ng		
1.	Surveying the image of the moving subject multiple cameras (<i>frequency & set-up</i>).	Low-level		
2.	Markers extraction from the background sce (accuracy & reliability).	Vision		
3.	Computation of the "real" 2D position of the (accuracy <- distortion).			
4.	Matching on multiple cameras.	High-le v	rel	
5.	3D Reconstruction (accuracy).	Vision		
6.	Model fitting (labelling, classification). Sema		ic	
An implicit step is CALIBRATION. A.A. 2018-2019 14/78 http://borghesediunimiit				

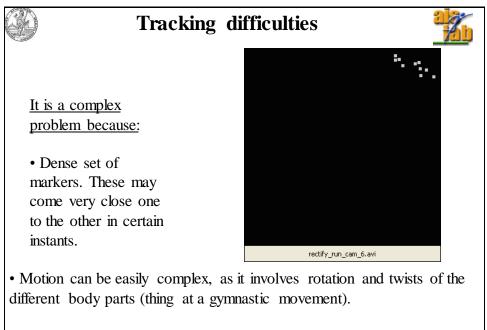


Disadvantages of motion capture systems based on passive markers

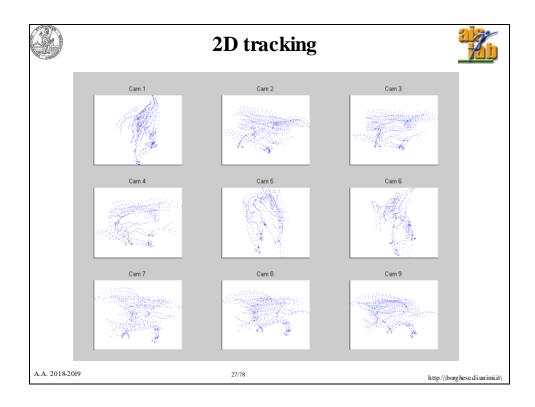
When a marker is hidden to the cameras by another body part (e.g. the arm which swings over the hip during gait), the motion capture looses track of it.

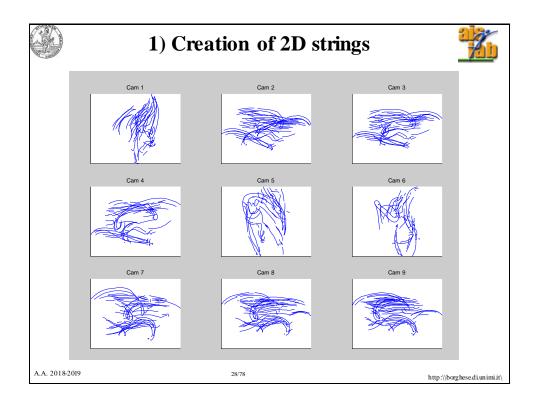
The multiple set of 2D data have to be correctly labaled and associated to their corresponding 3D markers.

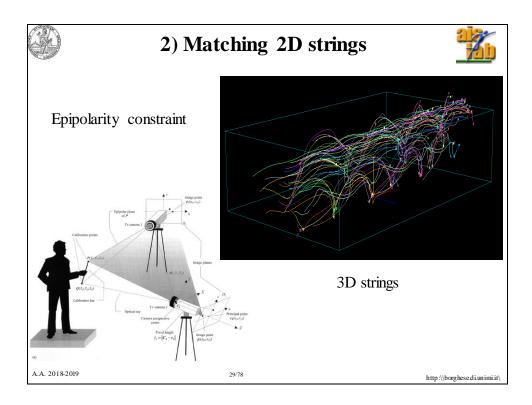




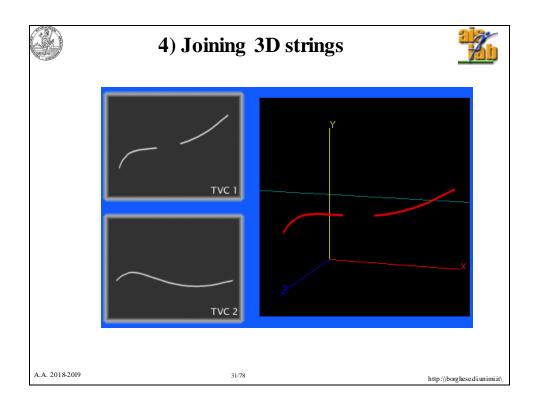
•Multi-camera information and temporal information is required to achieve a robust tracking.

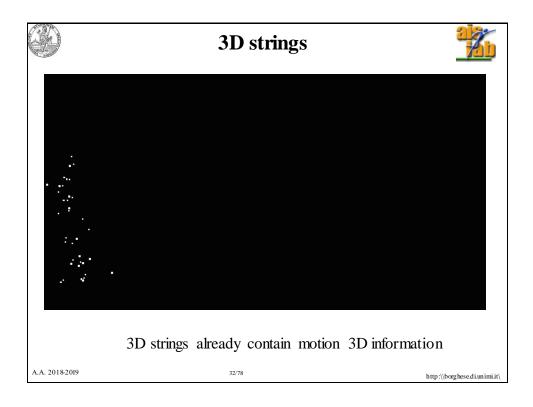


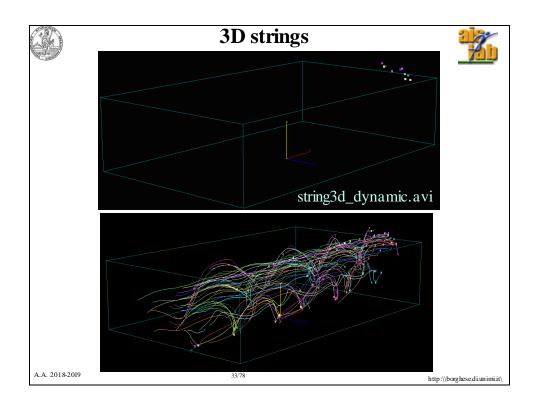


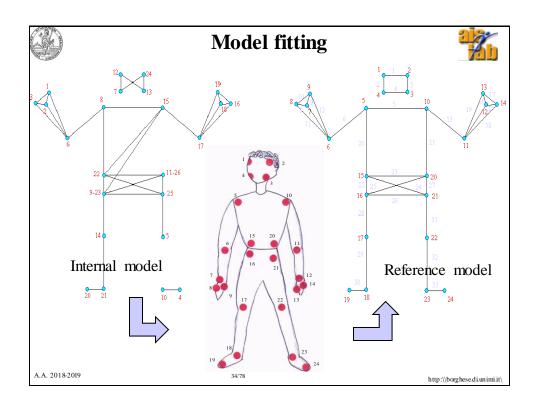


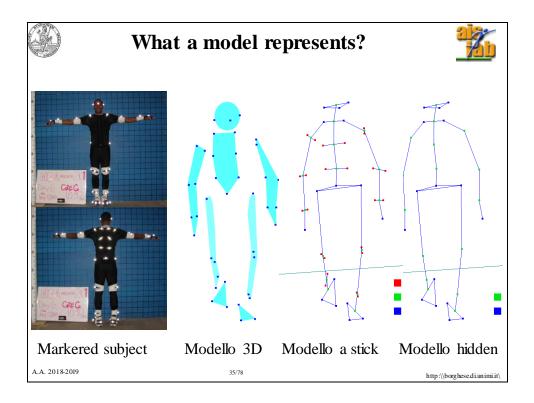


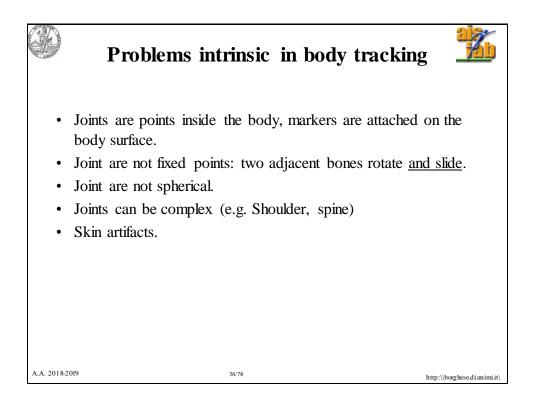


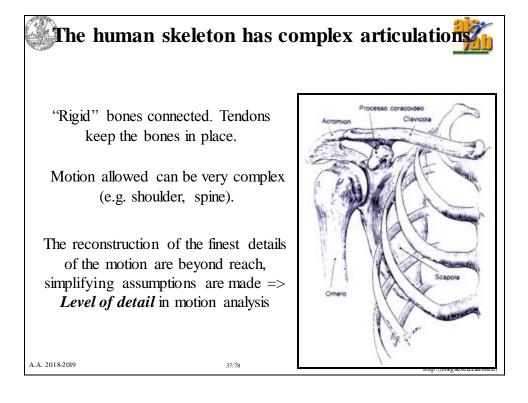


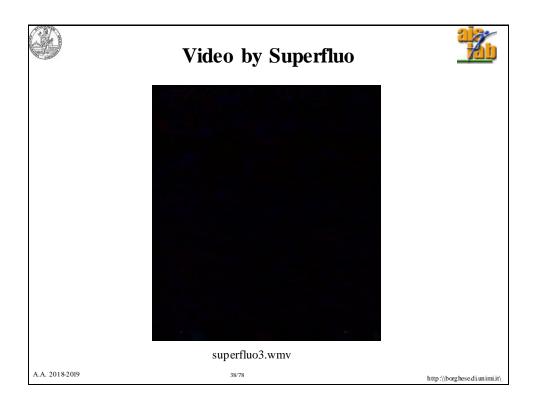


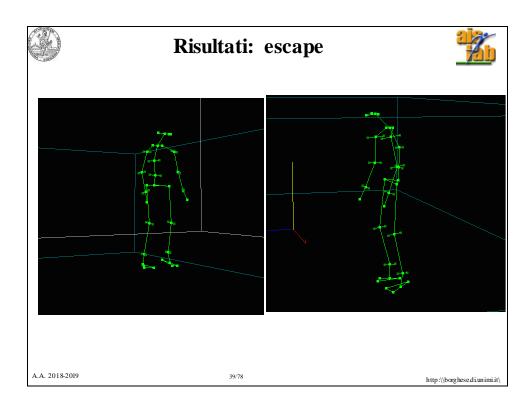


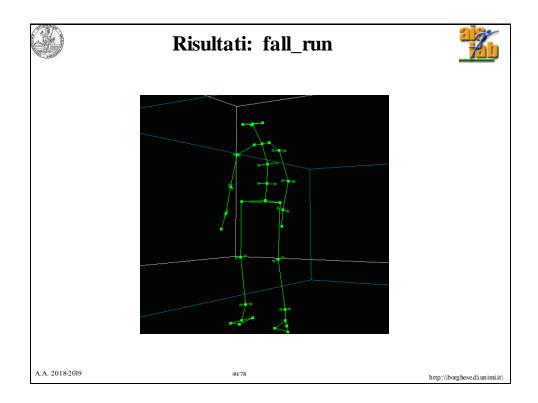


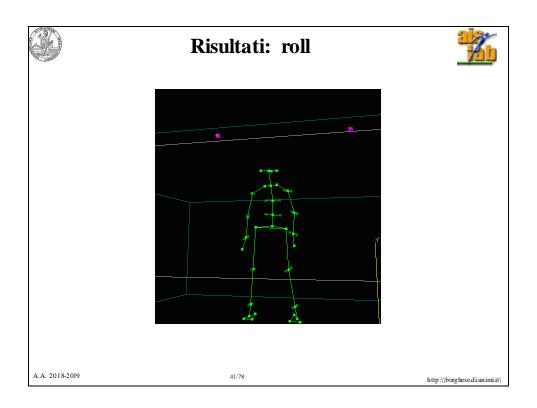


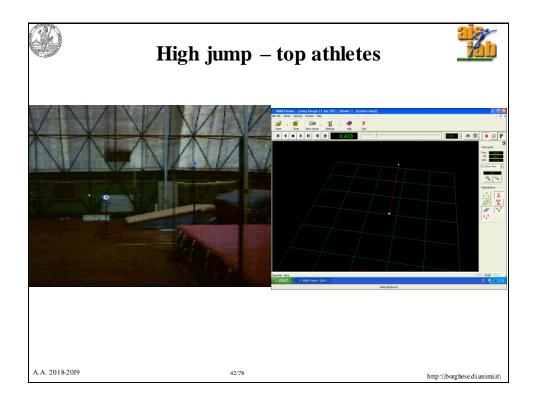


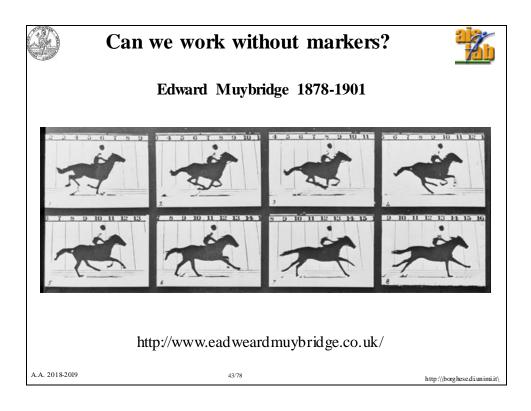


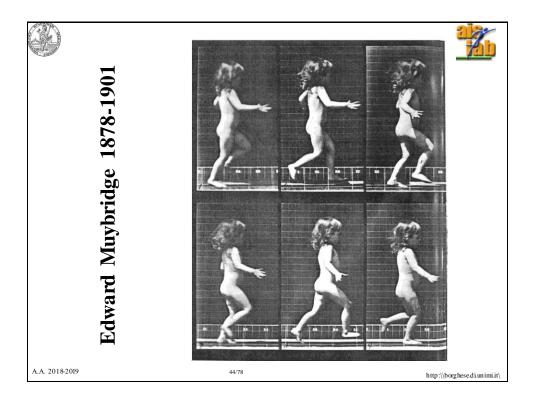


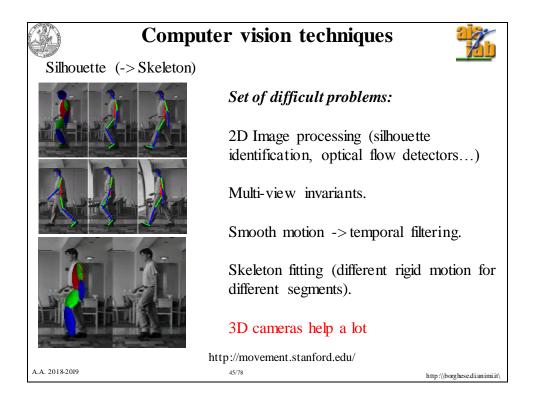


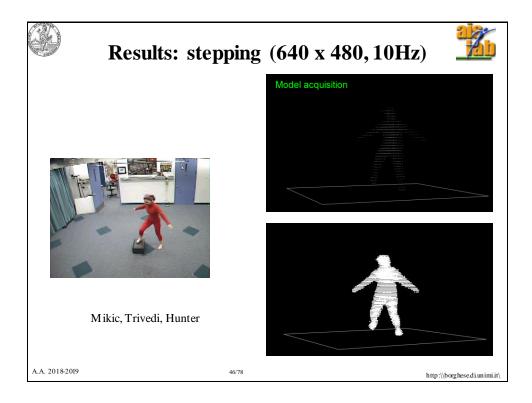


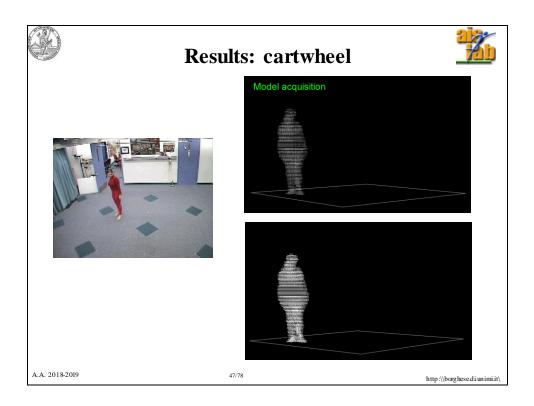


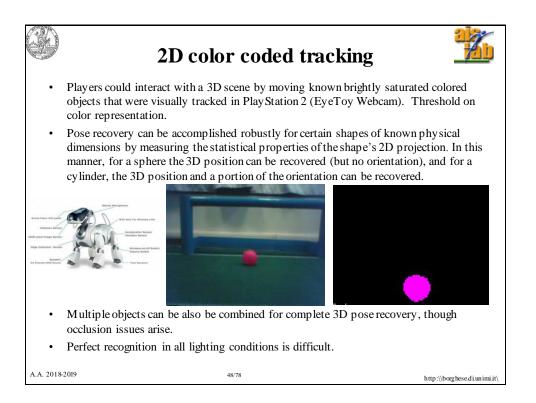
















Duck-neglect project http://borghese.dsi.unimi.it/Research/Lines Research/Virtual/Virtual.html

"Magic mirror" paradigm in which video of the player is overlayed with graphics generated by the computer.



Background measurement. Thresholding. In this case, silhouette is tracked. Alternative is the difference between consecutive images (glaring and blurring require some filtering). A.A. 2018-2019 duckNeglect_video_v0.mov 49/78 http://boghesediunimi.it/

