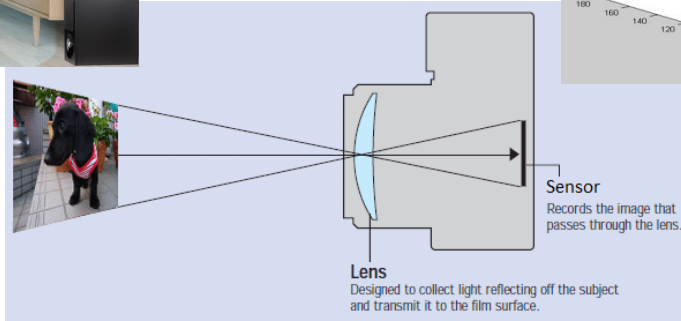
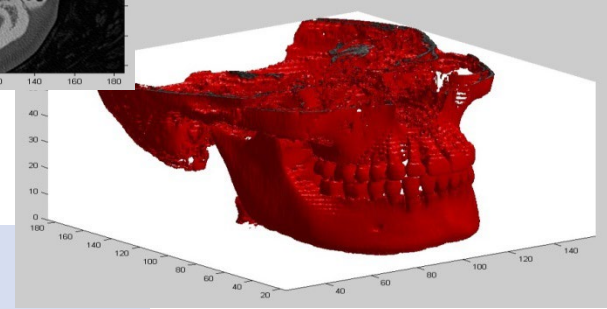
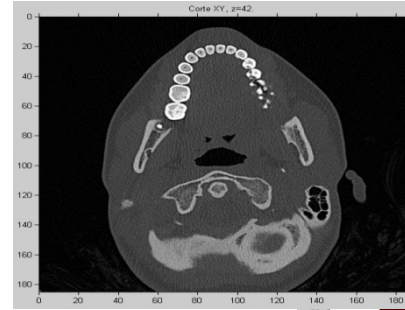


MENTION IN SOUND & IMAGE

E.E.T.

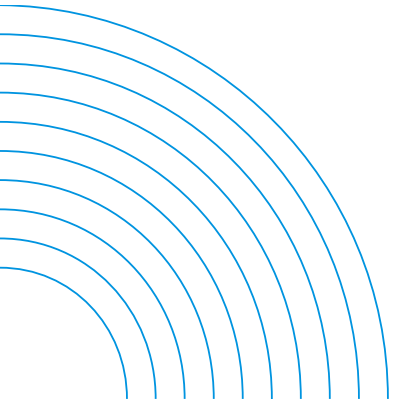
Vigo, July 9, 2025

What is done in Son e Imaxe?



What is done in Sound and Image?

This mention is designed to work in the audiovisual industry (production, design of facilities, content broadcasting: streaming, digital television) but also in acoustic applications (in construction, industry...). It also covers sound, image and video processing, including areas such as recognition, synthesis, artificial vision and applications of artificial intelligence in the audiovisual field.



Audiovisual production



Installation design



Dissemination of contents



Y =

87	89	101	106	118	130	142	155
85	91	101	105	116	129	135	149
86	92	96	105	112	128	131	144
92	88	102	101	116	129	135	147
88	94	94	98	113	122	130	139
88	94	98	97	113	119	133	141
92	99	98	106	107	118	135	145
89	95	98	107	104	112	130	144

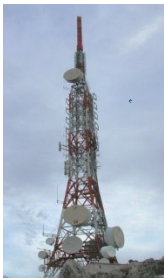
DCT

DCT Coeff =

808.0000	-149.5418	26.6464	-14.0897	0.7500	-5.7540	3.5750	0.0330
12.1982	-16.5235	-7.6122	5.2187	-0.2867	-1.9909	8.4265	1.2591
5.3355	-2.6557	2.3410	-9.9277	2.4614	-4.4550	-3.1640	-3.1640
1.9463	-2.7271	1.5106	2.8421	-2.1336	-2.7203	-2.7510	5.4051
0.7500	-2.0745	0.8610	0.2085	2.5000	1.8446	2.0787	2.4750
7.9536	-2.6624	2.6308	0.4010	0.4772	3.3000	1.7304	0.3942
-4.1042	-0.1650	-0.6945	0.0601	0.0628	-0.7874	-0.8410	0.3496
-3.4688	2.3804	0.1559	0.8696	0.1142	-0.5240	-3.9974	-5.6187



Encoding allows the efficient representation of images and sound, reducing the size of the files and making it possible to share them...

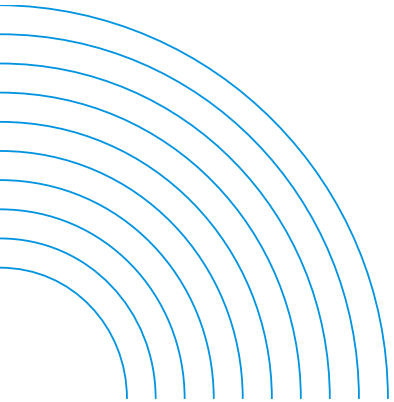
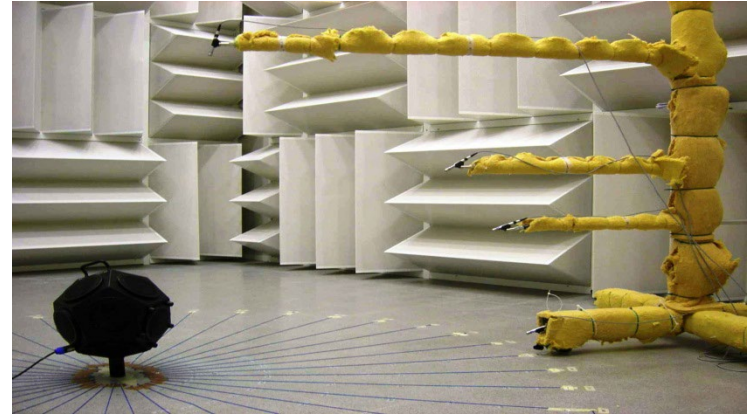
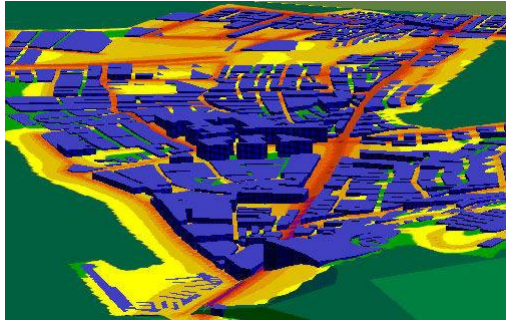


Digital television



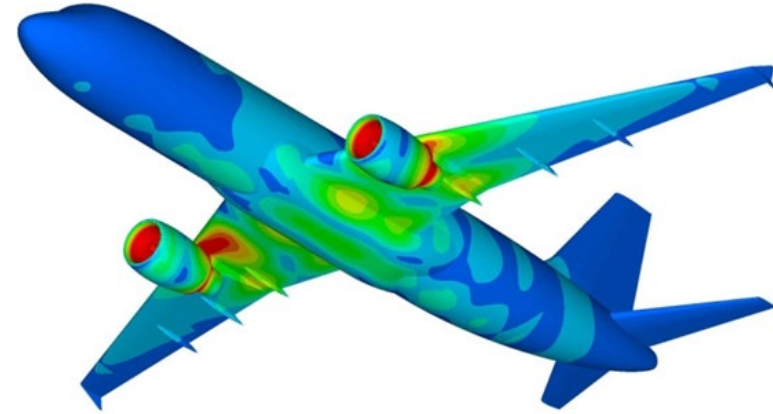
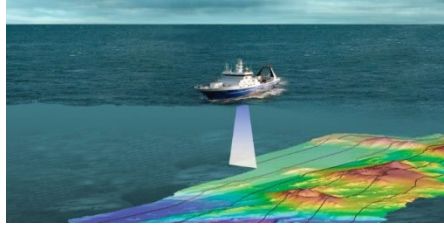
Streaming

Acoustics



*Environmental noise
and room acoustic
design*

Acoustics



Industrial applications (automotive, aeronautics), noise and vibration measurement, fault detection...
Underwater acoustics: sonar, bathymetry

Sound, image and video processing



Voice Recording

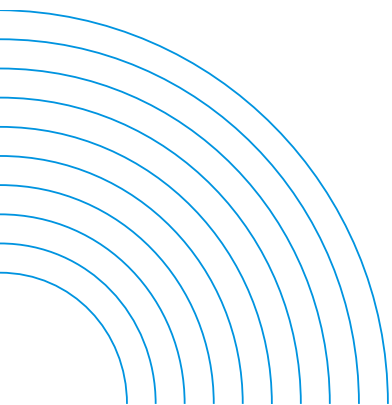
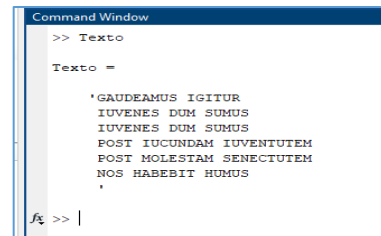
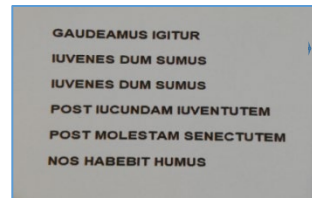
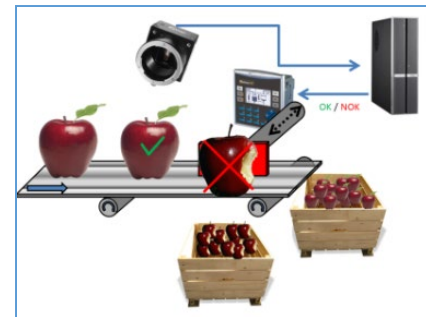


Image analysis/recording



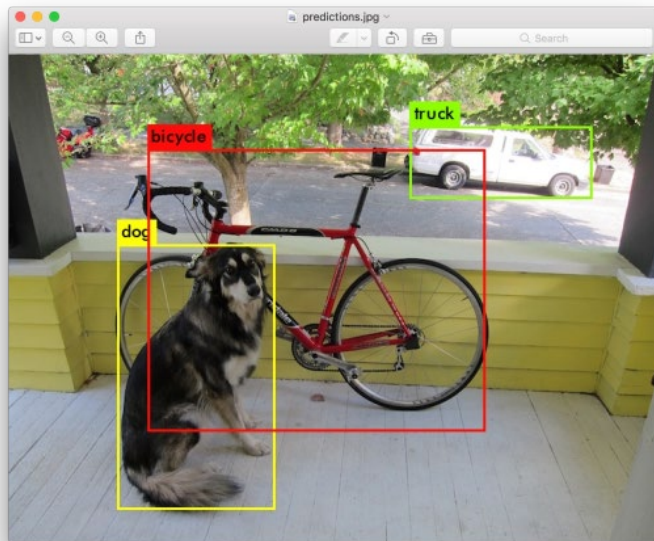
Biometrics

Computer vision (industrial)



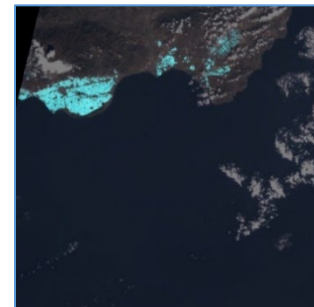
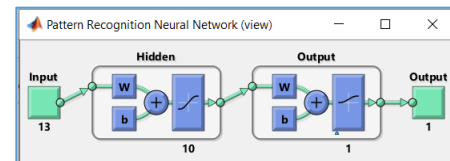
Artificial Intelligence/Machine Learning!!!!

Sound, image and video processing

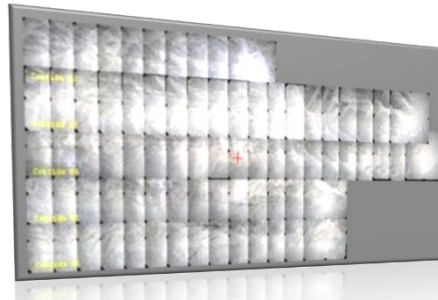
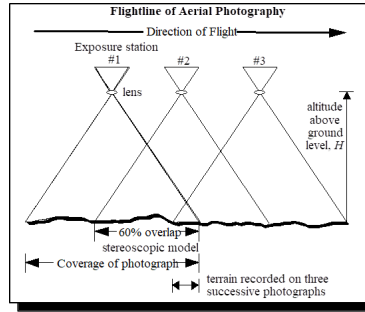


Object recognition based on deep learning (applications: autonomous car, ...)

Satellite image, processed with neural networks



Sound, image and video processing



Sound, image and video processing



3D capture



Video games



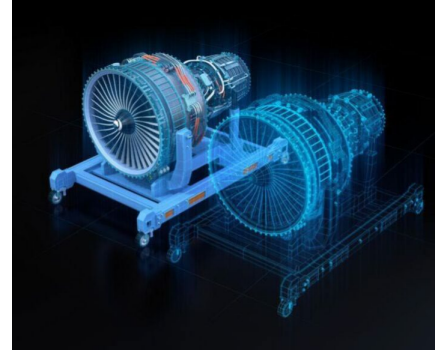
Augmented reality



Sound, image and video processing



*Industrial simulators,
Digital twins...*



Subjects:

COMPULSORY COURSES:

- Interactive Systems.
- Acoustics Engineering.
- Fundamentals of image processing.
- Sound Processing.
- Imaging Systems.
- Room Acoustics.
- Design of audiovisual installations.
- Video systems.

RELATED OPTIONAL COURSES:

- Advanced Acoustics.
- Virtual Environments.