

# AUDIO-VISUAL DATA PROCESSING



ECTS  
5 credits



Component  
École Nationale  
Supérieure  
d'Électrotechnique  
d'Électronique  
d'Informatique  
d'Hydraulique  
et des  
Télécommunications

## In brief

- **Code:** N8EN04
- **Open to exchange students:** No

## Presentation

### Objectives

This course aims at introducing students of the Images and Multimedia course to the processing of audio-visual data: image, audio and video. Several families of techniques are presented (see below), which are systematically illustrated by applications. The students can thus acquire a good general culture, and understand that the same application can be carried out using very varied techniques. For example, segmentation can be solved by unsupervised learning or by the variational approach. A particularity of this course is to include as many practical sessions as lectures, in order to find a balance between the acquisition of concepts and their practical appropriation.