

EE-490(f)

**Lab in signal and image processing**

Thiran Jean-Philippe

Cursus	Sem.	Type
Electrical and Electronical Engineering	MA2, MA4	Opt.
Minor in Imaging	E	Opt.

Language of teaching	English
Credits	4
Withdrawal Session	Unauthorized Summer
Semester	Spring
Exam	During the semester
Workload	120h
Weeks	14
<b>Hours</b>	<b>4 weekly</b>
Practical work	4 weekly
<b>Number of positions</b>	
<b>It is not allowed to withdraw from this subject after the registration deadline.</b>	

**Summary**

These lab sessions are designed as a practical companion to the course "Image Analysis and Pattern Recognition" by Prof. Thiran. The main objective is to learn how to use some important image processing libraries, namely OpenCV, for performing image analysis tasks.

**Content**

The lab will contain three main parts :

- Feature extraction
- Object detection
- Object tracking

And the addressed topics will be related to feature extraction, classification as well as some advanced machine learning topics.

**Resources****Moodle Link**

- [https://go.epfl.ch/EE-490\\_f](https://go.epfl.ch/EE-490_f)