EPFL

EE-490(f)   **Lab in signal and image processing**

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Cursus	Sem.	Type
Electrical and Electronical Engineering	MA2, MA4	Opt.

Language of teaching	English
Credits	4
Withdrawal	Unauthorized
Session	Summer
Semester	Spring
Exam	During the semester
Workload	120h
Weeks	14
Hours	**4 weekly**
TP	4 weekly
Number of positions	

It is not allowed to withdraw from this subject after the registration deadline.

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.