

Computer Vision

Course Workload		Assessment form (examination/ graded test/ ungraded test)
ECTS	Hours	
3	108	Ungraded test

This course introduces students to the basics of computer vision. Upon completion of the course, students will complete four lab assignments with progressively increasing levels of difficulty. The course covers topics such as Image Segmentation, Hough Transform, Feature Detectors, and Object Detection Algorithms.

Course structure:

1. Introduction

- 1.1. Main Tasks
- 1.2. Segmentation
- 1.3. Hough Transform
- 1.4. Images Features

2. Image segmentation

- 2.1. Description of objects
- 2.2. Key Feature Descriptors
- 2.3. Introduction to Machine Learning
- 2.4. Classification

3. Machine learning

- 3.1. Images Categorization
- 3.2. Objects Detection
- 3.3. Face Detection
- 3.4. Images Searching

4. Neural networks

- 4.1. Deep Learning
- 4.2. Neural Networks
- 4.3. Convolutional Neural Networks