

COURSE DETAIL

INTRODUCTION TO IMAGE PROCESSING

Country

France

Host Institution

University of Bordeaux

Program(s)

University of Bordeaux

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

120

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTION TO IMAGE PROCESSING

UCEAP Transcript Title

IMAGE PROCESSING

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course is an introduction to digital image processing and analysis. Students benefit from an overview of image processing methods (histogram restoration, convolution filters, mathematical morphology, segmentation) and image analysis methods (pattern recognition, identification, etc.). During the course students: learn how to manage 2D, 3D, and animated images; understand human perception and image acquisition; discover image segmentation, registration, and analysis; concrete implementation through existing tools or simple script development; study algorithms to obtain features from images (histogram, filters, descriptors).

Language(s) of Instruction

English

Host Institution Course Number

4TTV414U

Host Institution Course Title

INTRODUCTION TO IMAGE PROCESSING

Host Institution Course Details

Host Institution Campus

UNIVERSITÉ DE BORDEAUX

Host Institution Faculty

Collège des Sciences et Techniques

Host Institution Degree

Host Institution Department

Informatique

Course Last Reviewed

2021-2022

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