

COURSE DETAIL

VISION AND IMAGE PROCESSING

Country

Denmark

Host Institution

University of Copenhagen

Program(s)

University of Copenhagen

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

174

UCEAP Course Suffix**UCEAP Official Title**

VISION AND IMAGE PROCESSING

UCEAP Transcript Title

IMAGE PROCESSING

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides an overview of modern vision techniques used in man and machine. It focuses on both conceptual understanding of the models and methods as well as practical experience. The course covers state-of-the-art methods for image analysis including how to solve visual processing tasks such as object recognition and content-based image search and retrieval. It provides the necessary mathematical background to understand vision and image processing methods through programming exercises, which include converting a theoretical algorithmic description into a concrete program implementation, comparing computer vision and image analysis algorithms, and assessing their ability to solve a specific task. The course involves a mix of lectures and exercises.

Language(s) of Instruction

English

Host Institution Course Number

NDAK12002U

Host Institution Course Title

VISION AND IMAGE PROCESSING

Host Institution Campus

Host Institution Faculty

Faculty of Science

Host Institution Degree

Master

Host Institution Department

Department of Computer Science

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