

COURSE DETAIL

MEDICAL IMAGE PROCESSING

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Bioengineering

UCEAP Course Number

109

UCEAP Course Suffix

E

UCEAP Official Title

MEDICAL IMAGE PROCESSING

UCEAP Transcript Title

MED IMAGE PROCESS

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course provides an introduction to medical image processing and approaches to visual perception. It covers image sampling and quantization, interpolation and geometrical transformations, image enhancement in the spatial domain (point processing and filtering), color and image file formats, image enhancement in the frequency domain and image compression. Other topics include medical image segmentation and morphological processing and medical imaging modalities (conventional radiology, CT, nuclear imaging, MR and US). Previous coursework in bioengineering and systems and signals is required.

Language(s) of Instruction

English

Host Institution Course Number

14158

Host Institution Course Title

MEDICAL IMAGE PROCESSING

Host Institution Campus

Escuela Politécnica Superior. (Leganés)

Host Institution Faculty

Host Institution Degree

Host Institution Department

Bioingeniería e Ingeniería Aeroespacial

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