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
PROCESAMIENTO DE IMÁGENES MÉDICAS

Host Institution Course Details

Host Institution Campus
Escuela Politécnica Superior. (Leganés)

Host Institution Faculty

Host Institution Degree

Host Institution Department
Bioingeniería e Ingeniería Aeroespacial

Course Last Reviewed

Print