SYLLABUS DEL CORSO

Formazione ed Elaborazione delle Immagini Tc e Angiografiche

2324-2-I0303D008-I0303D037M

Aims

The student will have to gain and prove skills about image reconstruction, visualization and processing in CT and angiographic protocols.

Contents

The course aims to provide students with theoretical knowledge, techniques and practices about reconstruction, visualization and post-processing of Computed Tomography and Angiography images for the study of different organs or systems.

Detailed program

- Analytical, iterative and AI based TC reconstruction algorithms
- Spatial image filtering
- Visualization techniques: MPR, MIP, Surface Rendering, Volume Rendering, Global Illumination Rendering
- CT image quality parameters
- CT image segmentation: methods and applications
- Image fusion and registration: methods and applications

Prerequisites

Diagnostic Imaging Techniques I

Teaching form

Lessons

Textbook and teaching resource

Teaching material provided by the teacher.

"Tecniche di Tomografia Computerizzata e Risonanza Magnetica", Cei Luigi, Ed. Universo.

Semester

First semester

Assessment method

Office hours

By appointment required by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING