

UE 1.1 Medical Image Analysis



Niveau d'étude
BAC +5



Composante
UFR Sciences
et Techniques

En bref

- › **Langue(s) d'enseignement:** Français
- › **Ouvert aux étudiants en échange:** Non

Présentation

Description

- Characterization of images
 - Characterization methods (Statistical attributes, Co-occurrence matrix, Mutlifractal analysis, Filtering, Representation of shape)
 - Feature extraction with auto-encoder
- Multimodal medical image fusion
 - Information Fusion (Fuzzy sets, Belief functions, Probability theory)
 - Deep learning based fusion

Objectifs

The objectif si to introduce recent tools for processing medical images.

Pré-requis obligatoires

Basic methods in image processing.

Contrôle des connaissances

Contrôle continu

Compétences visées

Students will be able to propose methods to solve problems of outcome prediction, image classification and segmentation.

Liste des enseignements

	Nature	CM	TD	TP	Crédits
Medical Image Analysis	Matière				