

Research Project IoT

Goal of the project

The main goal is to diagnostic if a liver transplantation is possible. With several images of liver, the doctor can be, with google glasses, be able to take the decision to transplant a liver on a person.

Questions:

- Explain how the glasses will show the differences between two items, like do we need to detect to same items on a different position of the picture ?
- Do we need a image bank to compare the pictures taken by the glasses ?
- Do we need to develop the communication bewteen the server side and the glasses ?
- Do we have any technologies restrictions ?

Ideas:

- TensorFlow
- PILlow
- OpenCV

Objectives

En utilisant le SSIM, utiliser une database de poumons en bonne santés pour faire une moyenne des similarités entre cette database et un poumon lambda, et essayer de déterminer depuis la moyenne de pourcentage des similarités si le poumons est en bonne santé ou non.

Make a program who will be able to determine from liver pictures the histology of liver took in picture by google glasses

First objectives: Do a colormetry of liver pictures with RGBA codes -> EZ/20

Where can we find a database from livers ?