

HUJI Project – Use of electromagnets to guide particles inside the body

Software design

I. Functionalities

- A button to calculate the amperes in each electromagnet
- A button to upload an image
- A button to display the CT picture
- A button to signal the tumor and borders position
- An option to define the time constant τ , or by default
- An option to define the magnetic field B_0
- A menu : File, About, Help, Setings, Save, Open, Close

II. Process

1. Upload an image
2. Select the tumor, its borders, and the two borders of the body
3. According to the formula $B = \frac{\mu_0 I}{2R}$, compute the current to get a value of B_0 in the center

III. Model

