

This is a MATLAB implementation of the paper titled "A New Distribution Metric for Medical Imaging" SPIE 2008 Medical Imaging. In particular, it implements active contours utilizing a energy derived from prediction theory.

Note: This implementation is not very fast! It should only be used as a proof of concept of the new distribution metric. Please see other implementation methods for active contours for a big speed up (i.e., the same functional and energy can be utilized in other faster frameworks).

I have also attached the paper associated with the MATLAB code. You can also find a copy of the code and a description of this project on my website -- http://www.romeilsandhu.com/research_projects/p/

Instructions:

- 1) Open MATLAB, set the appropriate directory
- 2) Run the two demos:
 - a) demo_zebra
 - b) demo_twoObj
- 3) Change simulation parameters, iterations, images as you wish!

ENJOY!

~rome