

### Website

<https://github.com/Tony-Mao/tensorVoting>

### Setup opencv library

Load opencv library into Xcode, right click on project, click “Add files to”, hit “/”, type in “/usr/local/lib”, load .dylib files in. Then in “build setting” go to “Header Search Paths”, change it to “/usr/local/include”.

### Instruction

Global variable usage

1. change the integer variable SIZE to size of data set. Size of data set needs to divide 2 if data type is line instead of point.
2. DISTANCE is nearest neighbor distance, only points smaller than this distance will be counted.
3. sigma is used when calculating c.
4. tolerance is for preventing dividing 0, if two points are too close to each other.

Change path of ifstream

If it is line segments dataset, enable input x2, y2, z2.

Change the type of matrix K accordingly.