Evaluation Function

The evaluation code is used to quantitatively assess the segmentation performance. It consists of two functions:

- evaluateCytoSegmentation.m: Function to evaluate the result.
- **SegEvaluateJIDiceTPRFPR.m**: Function about the evaluation measurement, called by evaluateCytoSegmentation.m.

You need to load the cytoplasm annotation of each cell into a Matlab Cell structure before you call the function **evaluateCytoSegmentation.m** to start evaluating. For example, cell **GroundTruth{numImage_i,1}{CellID_j,1}** refers to the j-th cell annotation of image i.

HINT: we generate an example code that uses binary images of cytoplasms and nucleus and we suggest your results of segmentation are organized in the same way, take a look on our example and **use** it!!!

diceevaluation_run.m

The code uses a particular directory tree for files and segmentation result.

\isbi2014_test\ - main directory of TEST images, GT for Ground Truth, ORIG for original EDF images and SEG for segmented images using YOUR CODE.

\isbi2014_test\GT|SEG\Cyto - ground truth (or segmented) directory for cytoplams, one directory for each image from original EDF, where each directory has one binary image for each cytoplasm.

\isbi2014_test\GT|SEG\Nucleus - ground truth (or segmented) directory for nucleus, one binary image for all nucleus of each image.