

# GenerateReportAndAutoPointsOfInterest

February 22, 2021

Data filename : /workspace/for\_luis/2020-04-09\_final\_4\_volumes\_combined.h5

Shape: (2120, 2520, 2520)

Values: max = 12 , min = 12

## 1 Consistency score (CS)

Weighting data to get consistency score using method MaxMinSquare

Consistency score whole volume average = 32.36612531003841

Manually segmented volume [ 900:1156 , 185:441 , 1750:2006 ] has consistency score of 34.89816457033157 .

## 2 Average pooling of CS

Parameters used for average pooling

Sub-volume width : 256

Stride (jump) : 128

Consistency Score AvgPool3D data filename:

2020-04-09\_final\_4\_volumes\_combined\_VolAvg\_k256\_s128.h5

File already exists, and recalculation is not required so the results in this file will be used

## 3 Histogram of Consistency score and regions-of-interest

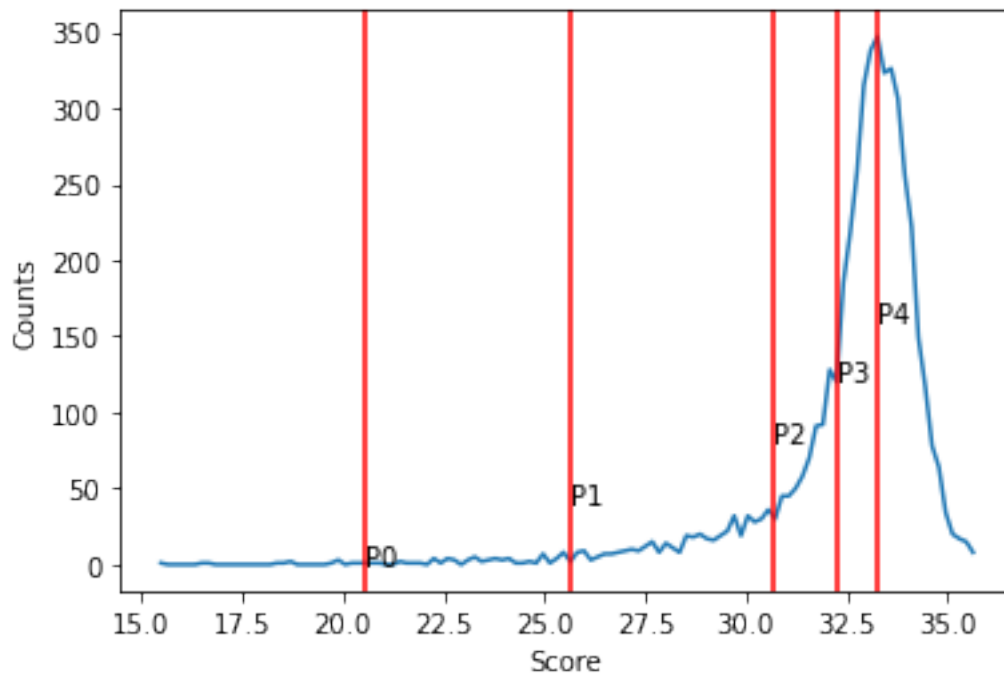
Blue - Consistency score histogram

red lines - points of interest

green line - consistency score for the region that was manually segmented

Gaussian fit to peak, parameters amplitude=336.99165968746934 ,  
mean=33.27826868431828 ,stdev=0.842132052886519

P0 [ 1792:2048 , 1536:1792 , 128:384 ] centered at (1920, 1664, 256)  
 cscore=20.512474536895752  
 P1 [ 1792:2048 , 1664:1920 , 128:384 ] centered at (1920, 1792, 256)  
 cscore=25.616242706775665  
 P2 [ 640:896 , 640:896 , 1024:1280 ] centered at (768, 768, 1152)  
 cscore=30.682079195976257  
 P3 [ 640:896 , 1152:1408 , 1024:1280 ] centered at (768, 1280, 1152)  
 cscore=32.287492752075195  
 P4 [ 768:1024 , 896:1152 , 1024:1280 ] centered at (896, 1024, 1152)  
 cscore=33.244472205638885



#### 4 Manually segmented volumes - CS

V0 [ 900:1156 , 185:441 , 1750:2006 ] , consistency score of 34.89816457033157  
 V1 [ 512:768 , 1280:1536 , 1536:1792 ] , consistency score of 34.19626897573471  
 V2 [ 0:256 , 1536:1792 , 1792:2048 ] , consistency score of 33.13370609283447  
 V3 [ 0:256 , 1024:1280 , 512:768 ] , consistency score of 34.22354298830032  
 V4 [ 1536:1792 , 256:512 , 0:256 ] , consistency score of 29.879499673843384  
 V5 [ 684:1068 , 2012:2396 , 457:841 ] , consistency score of 33.60379462771945  
 V6 [ 1067:1991 , 1074:1458 , 1354:1738 ] , consistency score of  
 33.338957639311644

