TomoFile

Generated by Wilmer Henao

Chapter 1

Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 2

Class Documentation

2.1 multiTool.tomodata Class Reference

Public Member Functions

- def __init__ (self)

  Initialization of the data.
- def maskNamesGetter (self, maskfile)

  This function keeps the ROI's in a dictionary.
- def roimask_reader (self, base, fname)

  Takes care of the indices and the mask.
- def get_totalbeamlets (self, base, fname)

  Get the total number of beamlets.
- def get_dim (self, base, fname)

  Get the dimensions of the voxel big space.
- def BigToSmallCreator (self)

  Create a map from big to small voxel space, the order of elements is preserved but there is a compression to only one element in between.
- def getNumProjections (self)

  Using the motion.txt file provided, this function calculates the number of projections by counting the lines.
- def removezeroes (self, toremove)

  Remove the voxels with a mask of zero (Air Voxels)
- def removebixels (self, pitch)

  Deletes the corresponding bixels.
- def readWeiguosCase (self)

  Read Weiguo's Case.
- def maxTgtDoses (self, numProjections, k10)

  This function will calculate the maximum bixel to a target coming from a particular beamlet.

Public Attributes

- **base_dir**
- **ProjectionsPerLoop**
- **bixelsintween**
- **yBar**
- **maxvoxels**
- **img_filename**
- **header_filename**
- **struct_img_filename**
- **struct_img_header**
- **outputDirectory**
- **roinames**
- **L**
- **timeA**
- **timeM**
- **smallvoxels**
- **totalsmallvoxels**
- **quadHelperThresh**
- **quadHelperUnder**
- **quadHelperOver**
- **numProjections**
- **leafsD**
- **projectionsD**
- **bdata**
- **treatmentName**
- **chunkName**
- **logfile**
- **logFile**
- **OARDict**
- **TARGETDict**
- **SUPPORTDict**
- **AllDict**
- **totalbeamlets**
- **voxelsBigSpace**
- **mask**
- **bixels**
- **voxels**
- **Dijs**
- **OARList**
- **OARThresholds**
- **TARGETList**
- **TARGETThresholds**
- **ALLList**

2.1.1 Member Function Documentation

2.1.1.1 BigToSmallCreator()

```
def multiTool.tomodata.BigToSmallCreator (
              self )
```

Create a map from big to small voxel space, the order of elements is preserved but there is a compression to only one element in between.

The documentation for this class was generated from the following file:

- multiTool.py

Index