Bayesian Cluster Tool

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Chapter 1

Class Index

1.1 Class List

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

ClusterWrapper	
A struct for storing extracted parameters from a cluster	Ę
ScanEntry	
A struct for storing a result of an individual scan configuration	7

2 Class Index

Chapter 2

File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

include/BayesianClustering/API.hpp																9
src/BayesianClustering/API.cpp .																20

File Index

Chapter 3

Class Documentation

3.1 ClusterWrapper Struct Reference

A struct for storing extracted parameters from a cluster.

```
#include <API.hpp>
```

Public Member Functions

- bool operator< (const ClusterWrapper &aOther)
- Comparison operator for sorting.

 bool operator== (const ClusterWrapper &aOther)

 Equality operator required by boost python.

Public Attributes

• std::size_t localizations

The number of localizations in the cluster.

· long double area

The area of the spanning convex hull.

• long double perimeter

The perimeter of the spanning convex hull.

· double centroid x

The x-position of the centroid.

· double centroid_y

The y-position of the centroid.

3.1.1 Detailed Description

A struct for storing extracted parameters from a cluster.

Definition at line 44 of file API.hpp.

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3.1.2 Member Function Documentation

3.1.2.1 operator<()

Comparison operator for sorting.

Returns

Whether we are smaller than the other

Parameters

	aOther	Another ClusterWrapper to compare against
--	--------	-------------------------------------------

Definition at line 54 of file API.hpp.

References area, localizations, and perimeter.

3.1.2.2 operator==()

Equality operator required by boost python.

Returns

Whether we are equal to the other

Parameters

aOther Another ClusterWrapper to compare against

Definition at line 64 of file API.hpp.

References centroid_x, and centroid_y.

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

• include/BayesianClustering/API.hpp

3.2 ScanEntry Struct Reference

A struct for storing a result of an individual scan configuration.

```
#include <API.hpp>
```

Public Member Functions

```
• bool operator< (const ScanEntry &aOther)
```

Comparison operator for sorting.

bool operator== (const ScanEntry &aOther)

Equality operator required by boost python.

Public Attributes

double r

The R parameter

double t

The T parameter.

· double score

The score.

3.2.1 Detailed Description

A struct for storing a result of an individual scan configuration.

Definition at line 16 of file API.hpp.

3.2.2 Member Function Documentation

3.2.2.1 operator<()

Comparison operator for sorting.

Returns

Whether we are smaller than the other

8 Class Documentation

Parameters

aOther	Another ScanEntry to compare against
--------	--------------------------------------

Definition at line 24 of file API.hpp.

References r, and t.

3.2.2.2 operator==()

Equality operator required by boost python.

Returns

Whether we are equal to the other

Parameters

aOther	Another ScanEntry to compare against
--------	--------------------------------------

Definition at line 33 of file API.hpp.

References r, score, and t.

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

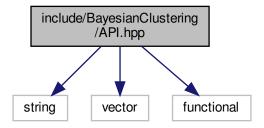
• include/BayesianClustering/API.hpp

Chapter 4

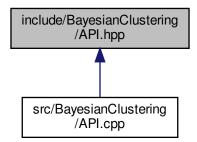
File Documentation

4.1 include/BayesianClustering/API.hpp File Reference

```
#include <string>
#include <vector>
#include <functional>
Include dependency graph for API.hpp:
```



This graph shows which files directly or indirectly include this file:



Classes

struct ScanEntry

A struct for storing a result of an individual scan configuration.

struct ClusterWrapper

A struct for storing extracted parameters from a cluster.

Typedefs

typedef std::function < void(Rolproxy &, const double &, const double &) > tFullScanCallback
 Typedef the full scan callback for clarity.

 $\bullet \ \ typedef \ std:: function < void (const \ std:: vector < \ ScanEntry > \&) > t \\ Simple ScanCallback$

Typedef the simplified scan callback for clarity.

typedef std::function< void(Rolproxy &) > tFullClusterCallback

Typedef the full clustering callback for clarity.

typedef std::function< void(const std::vector< ClusterWrapper > &) > tSimpleClusterCallback

Typedef the simplified clustering callback for clarity.

Functions

 void AutoRoi_Scan_FullCallback (const std::string &aInFile, const ScanConfiguration &aScanConfig, const tFullScanCallback &aCallback)

Automatically extract Rol, run scan and apply a full call-back.

void AutoRoi_Scan_SimpleCallback (const std::string &aInFile, const ScanConfiguration &aScanConfig, const tSimpleScanCallback &aCallback)

Automatically extract Rol, run scan and apply a simple call-back.

Automatically extract Rol, run scan and dump to JSON file.

 void AutoRoi_Cluster_FullCallback (const std::string &aInFile, const double &aR, const double &aT, const tFullClusterCallback &aCallback)

Automatically extract Rol, clusterize and apply a full call-back.

 void AutoRoi_Cluster_SimpleCallback (const std::string &aInFile, const double &aR, const double &aT, const tSimpleClusterCallback &aCallback)

Automatically extract Rol, clusterize and apply a full call-back.

Automatically specify Rol, clusterize and apply a full call-back.

void ManualRoi_Scan_FullCallback (const std::string &aInFile, const ManualRol &aManualRol, const Scan
 —
 Configuration &aScanConfig, const tFullScanCallback &aCallback)

Manually specify Rol, run scan and apply a full call-back.

 void ManualRoi_Scan_SimpleCallback (const std::string &alnFile, const ManualRol &aManualRol, const ScanConfiguration &aScanConfig, const tSimpleScanCallback &aCallback)

Manually specify Rol, run scan and apply a simple call-back.

void ManualRoi_Scan_ToJson (const std::string &aInFile, const ManualRol &aManualRol, const Scan
 —
 Configuration &aScanConfig, const std::string &aOutputPattern)

Manually specify Rol, run scan and dump to JSON file.

• void ManualRoi_Cluster_FullCallback (const std::string &aInFile, const ManualRoI &aManualRoI, const double &aR, const double &aT, const tFullClusterCallback &aCallback)

Manually specify Rol, clusterize and apply a full call-back.

 void ManualRoi_Cluster_SimpleCallback (const std::string &aInFile, const ManualRol &aManualRol, const double &aR, const double &aT, const tSimpleClusterCallback &aCallback)

Manually specify Rol, clusterize and apply a full call-back.

 void ManualRoi_Cluster_ToJson (const std::string &aInFile, const ManualRol &aManualRol, const double &aR, const double &aT, const std::string &aOutputPattern)

Manually specify Rol, clusterize and apply a full call-back.

 void ImageJRoi_Scan_FullCallback (const std::string &aInFile, const std::string &aImageJfile, const double &aScale, const ScanConfiguration &aScanConfig, const tFullScanCallback &aCallback)

Extract Rol using an image-map, run scan and apply a full call-back.

void ImageJRoi_Scan_SimpleCallback (const std::string &aInFile, const std::string &aImageJfile, const double &aScale, const ScanConfiguration &aScanConfig, const tSimpleScanCallback &aCallback)

Extract Rol using an image-map, run scan and apply a simple call-back.

void ImageJRoi_Scan_ToJson (const std::string &aInFile, const std::string &aImageJfile, const double &a
 Scale, const ScanConfiguration &aScanConfig, const std::string &aOutputPattern)

Extract Rol using an image-map, run scan and dump to JSON file.

• void ImageJRoi_Cluster_FullCallback (const std::string &aInFile, const std::string &aImageJfile, const double &aScale, const double &aT, const tFullClusterCallback &aCallback)

Extract Rol using an image-map, clusterize and apply a full call-back.

void lmageJRoi_Cluster_SimpleCallback (const std::string &aInFile, const std::string &aImageJfile, const double &aScale, const double &aT, const tSimpleClusterCallback &aCallback)

Extract Rol using an image-map, clusterize and apply a full call-back.

void ImageJRoi_Cluster_ToJson (const std::string &aInFile, const std::string &aImageJfile, const double &a
 Scale, const double &aR, const double &aT, const std::string &aOutputPattern)

Extract Rol using an image-map, clusterize and apply a full call-back.

4.1.1 Function Documentation

4.1.1.1 AutoRoi_Cluster_FullCallback()

Automatically extract Rol, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 163 of file API.cpp.

Referenced by AutoRoi_Cluster_SimpleCallback().

4.1.1.2 AutoRoi_Cluster_SimpleCallback()

Automatically extract Rol, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 169 of file API.cpp.

References _FullClusterToSimpleCluster_(), and AutoRoi_Cluster_FullCallback().

Referenced by AutoRoi_Cluster_ToJson().

4.1.1.3 AutoRoi_Cluster_ToJson()

Automatically specify RoI, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the Rol id).

Definition at line 175 of file API.cpp.

 $References _Cluster Callback_Json_(), and AutoRoi_Cluster_Simple Callback().$

4.1.1.4 AutoRoi_Scan_FullCallback()

```
const ScanConfiguration & aScanConfig,
const tFullScanCallback & aCallback )
```

Automatically extract Rol, run scan and apply a full call-back.

Parameters

alnFile	The name of the localization file
aScanConfig	The configuration for the scan
aCallback	The full callback to be applied

Definition at line 143 of file API.cpp.

4.1.1.5 AutoRoi_Scan_SimpleCallback()

Automatically extract RoI, run scan and apply a simple call-back.

Parameters

alnFile	The name of the localization file
aScanConfig	The configuration for the scan
aCallback	The simple callback to be applied

Definition at line 149 of file API.cpp.

 $References _FullScanToSimpleScan_().$

Referenced by AutoRoi_Scan_ToJson().

4.1.1.6 AutoRoi_Scan_ToJson()

Automatically extract RoI, run scan and dump to JSON file.

alnFile	The name of the localization file
aScanConfig	The configuration for the scan
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are
Generated on Tue Jul 4 202(11) தவி) சடும் நெருக்கு செர்சாலும் நிறையிலில் மறையில் வரை (giving the Rolid).	

Definition at line 155 of file API.cpp.

References _ScanCallback_Json_(), and AutoRoi_Scan_SimpleCallback().

4.1.1.7 ImageJRoi_Cluster_FullCallback()

Extract Rol using an image-map, clusterize and apply a full call-back.

Parameters

aInFile	The name of the localization file
almageJfile	The name of an ImageJ Rol file file
aScale	The size of the LSB in the ImageJ file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 243 of file API.cpp.

Referenced by ImageJRoi_Cluster_SimpleCallback().

4.1.1.8 ImageJRoi_Cluster_SimpleCallback()

Extract Rol using an image-map, clusterize and apply a full call-back.

alnFile	The name of the localization file
almageJfile	The name of an ImageJ RoI file file
aScale	The size of the LSB in the ImageJ file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 249 of file API.cpp.

References _FullClusterToSimpleCluster_(), and ImageJRoi_Cluster_FullCallback().

Referenced by ImageJRoi_Cluster_ToJson().

4.1.1.9 ImageJRoi_Cluster_ToJson()

Extract Rol using an image-map, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
almageJfile	The name of an ImageJ Rol file file
aScale	The size of the LSB in the ImageJ file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the Rol id).

Definition at line 255 of file API.cpp.

References _ClusterCallback_Json_(), and ImageJRoi_Cluster_SimpleCallback().

4.1.1.10 ImageJRoi_Scan_FullCallback()

Extract Rol using an image-map, run scan and apply a full call-back.

alnFile	The name of the localization file
almageJfile	The name of an ImageJ RoI file file
aScale	The size of the LSB in the ImageJ file
aScanConfig	The configuration for the scan
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Definition at line 223 of file API.cpp.

4.1.1.11 ImageJRoi_Scan_SimpleCallback()

Extract Rol using an image-map, run scan and apply a simple call-back.

Parameters

alnFile	The name of the localization file
almageJfile	The name of an ImageJ RoI file file
aScale	The size of the LSB in the ImageJ file
aScanConfig	The configuration for the scan
aCallback	The simple callback to be applied

Definition at line 229 of file API.cpp.

References _FullScanToSimpleScan_().

Referenced by ImageJRoi_Scan_ToJson().

4.1.1.12 ImageJRoi_Scan_ToJson()

Extract Rol using an image-map, run scan and dump to JSON file.

alnFile	The name of the localization file
almageJfile	The name of an ImageJ Rol file file
aScale	The size of the LSB in the ImageJ file
aScanConfig	The configuration for the scan
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the RoI id).

Definition at line 235 of file API.cpp.

References _ScanCallback_Json_(), and ImageJRoi_Scan_SimpleCallback().

4.1.1.13 ManualRoi_Cluster_FullCallback()

Manually specify RoI, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified Rol window
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 203 of file API.cpp.

Referenced by ManualRoi_Cluster_SimpleCallback().

4.1.1.14 ManualRoi_Cluster_SimpleCallback()

Manually specify RoI, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified RoI window
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 209 of file API.cpp.

References _FullClusterToSimpleCluster_(), and ManualRoi_Cluster_FullCallback().

Referenced by ManualRoi_Cluster_ToJson().

4.1.1.15 ManualRoi_Cluster_ToJson()

Manually specify RoI, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified Rol window
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the RoI id).

Definition at line 215 of file API.cpp.

References _ClusterCallback_Json_(), and ManualRoi_Cluster_SimpleCallback().

4.1.1.16 ManualRoi_Scan_FullCallback()

Manually specify Rol, run scan and apply a full call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified RoI window
aScanConfig	The configuration for the scan
aCallback	The full callback to be applied

Definition at line 183 of file API.cpp.

4.1.1.17 ManualRoi_Scan_SimpleCallback()

Manually specify Rol, run scan and apply a simple call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified RoI window
aScanConfig	The configuration for the scan
aCallback	The simple callback to be applied

Definition at line 189 of file API.cpp.

References _FullScanToSimpleScan_().

Referenced by ManualRoi_Scan_ToJson().

4.1.1.18 ManualRoi_Scan_ToJson()

Manually specify RoI, run scan and dump to JSON file.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified Rol window
aScanConfig	The configuration for the scan
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the Rol id).

Definition at line 195 of file API.cpp.

References _ScanCallback_Json_(), and ManualRoi_Scan_SimpleCallback().

4.2 src/BayesianClustering/API.cpp File Reference

```
#include "BayesianClustering/API.hpp"
#include "BayesianClustering/LocalizationFile.hpp"
#include "BayesianClustering/Configuration.hpp"
#include "BayesianClustering/RoI.hpp"
#include "BayesianClustering/RoIproxy.hpp"
#include <map>
#include <algorithm>
#include <mutex>
#include <boost/geometry.hpp>
#include <boost/geometry/geometries/polygon.hpp>
#include <boost/filesystem.hpp>
#include <fmt/format.h>
Include dependency graph for API.cpp:
```



Functions

void _ScanCallback_Json_ (const std::vector < ScanEntry > &aVector, const std::string &aInFile, const std
 ::string &aOutputPattern)

A callback to dump a scan to a JSON file.

 void_FullScanToSimpleScan_ (Rol &aRol, const ScanConfiguration &aScanConfig, const tSimpleScanCallback &aCallback)

A callback to neatly package the scan results for easy consumption.

void _ClusterCallback_Json_ (const std::vector< ClusterWrapper > &aVector, const std::string &aInFile, const std::string &aOutputPattern)

A callback to dump a clustering run to a JSON file.

void _FullClusterToSimpleCluster_ (Rolproxy &aRolproxy, const std::function< void(const std::vector<
 ClusterWrapper > &) > &aCallback)

A callback to neatly package the scan results for easy consumption.

 void AutoRoi_Scan_FullCallback (const std::string &aInFile, const ScanConfiguration &aScanConfig, const tFullScanCallback &aCallback)

Automatically extract Rol, run scan and apply a full call-back.

void AutoRoi_Scan_SimpleCallback (const std::string &aInFile, const ScanConfiguration &aScanConfig, const tSimpleScanCallback &aCallback)

Automatically extract Rol, run scan and apply a simple call-back.

Automatically extract Rol, run scan and dump to JSON file.

 void AutoRoi_Cluster_FullCallback (const std::string &aInFile, const double &aR, const double &aT, const tFullClusterCallback &aCallback)

Automatically extract Rol, clusterize and apply a full call-back.

• void AutoRoi_Cluster_SimpleCallback (const std::string &aInFile, const double &aR, const double &aT, const tSimpleClusterCallback &aCallback)

Automatically extract Rol, clusterize and apply a full call-back.

Automatically specify Rol, clusterize and apply a full call-back.

void ManualRoi_Scan_FullCallback (const std::string &aInFile, const ManualRol &aManualRol, const Scan ← Configuration &aScanConfig, const tFullScanCallback &aCallback)

Manually specify Rol, run scan and apply a full call-back.

 void ManualRoi_Scan_SimpleCallback (const std::string &aInFile, const ManualRoI &aManualRoI, const ScanConfiguration &aScanConfig, const tSimpleScanCallback &aCallback)

Manually specify Rol, run scan and apply a simple call-back.

void ManualRoi_Scan_ToJson (const std::string &aInFile, const ManualRol &aManualRol, const Scan
 —
 Configuration &aScanConfig, const std::string &aOutputPattern)

Manually specify Rol, run scan and dump to JSON file.

void ManualRoi_Cluster_FullCallback (const std::string &aInFile, const ManualRoI &aManualRoI, const double &aR, const double &aT, const tFullClusterCallback &aCallback)

Manually specify Rol, clusterize and apply a full call-back.

 void ManualRoi_Cluster_SimpleCallback (const std::string &aInFile, const ManualRoI &aManualRoI, const double &aR, const double &aT, const tSimpleClusterCallback &aCallback)

Manually specify Rol, clusterize and apply a full call-back.

 void ManualRoi_Cluster_ToJson (const std::string &aInFile, const ManualRol &aManualRol, const double &aR, const double &aT, const std::string &aOutputPattern)

Manually specify Rol, clusterize and apply a full call-back.

 void ImageJRoi_Scan_FullCallback (const std::string &aInFile, const std::string &aImageJfile, const double &aScale, const ScanConfiguration &aScanConfig, const tFullScanCallback &aCallback)

Extract Rol using an image-map, run scan and apply a full call-back.

void ImageJRoi_Scan_SimpleCallback (const std::string &aInFile, const std::string &aImageJfile, const double &aScale, const ScanConfiguration &aScanConfig, const tSimpleScanCallback &aCallback)

Extract Rol using an image-map, run scan and apply a simple call-back.

void ImageJRoi_Scan_ToJson (const std::string &aInFile, const std::string &aImageJfile, const double &a
 Scale, const ScanConfiguration &aScanConfig, const std::string &aOutputPattern)

Extract Rol using an image-map, run scan and dump to JSON file.

 void ImageJRoi_Cluster_FullCallback (const std::string &aInFile, const std::string &aImageJfile, const double &aScale, const double &aR, const double &aT, const tFullClusterCallback &aCallback)

Extract Rol using an image-map, clusterize and apply a full call-back.

void ImageJRoi_Cluster_SimpleCallback (const std::string &aInFile, const std::string &aImageJfile, const double &aScale, const double &aR, const double &aT, const tSimpleClusterCallback &aCallback)

Extract Rol using an image-map, clusterize and apply a full call-back.

void ImageJRoi_Cluster_ToJson (const std::string &aInFile, const std::string &aImageJfile, const double &a
 Scale, const double &aR, const double &aT, const std::string &aOutputPattern)

Extract Rol using an image-map, clusterize and apply a full call-back.

4.2.1 Function Documentation

4.2.1.1 _ClusterCallback_Json_()

A callback to dump a clustering run to a JSON file.

Parameters

aVector	A vector of cluster-wrappers
alnFile	The name of the localization file
aOutputPattern	The name of the output JSON file

Definition at line 89 of file API.cpp.

Referenced by AutoRoi_Cluster_ToJson(), ImageJRoi_Cluster_ToJson(), and ManualRoi_Cluster_ToJson().

4.2.1.2 FullClusterToSimpleCluster_()

A callback to neatly package the scan results for easy consumption.

Parameters

aRolproxy	The region-proxy containing the clusters
aCallback	The simple callback to be applied

Definition at line 110 of file API.cpp.

 $Referenced \ by \ AutoRoi_Cluster_SimpleCallback(), \ ImageJRoi_Cluster_SimpleCallback(), \ and \ ManualRoi_{\hookleftarrow} \ Cluster_SimpleCallback().$

4.2.1.3 _FullScanToSimpleScan_()

A callback to neatly package the scan results for easy consumption.

Parameters

aRol	The region of interest
aScanConfig	The configuration for the scan
aCallback	The simple callback to be applied

Definition at line 75 of file API.cpp.

Referenced by AutoRoi_Scan_SimpleCallback(), ImageJRoi_Scan_SimpleCallback(), and ManualRoi_Scan_ \hookleftarrow SimpleCallback().

4.2.1.4 _ScanCallback_Json_()

A callback to dump a scan to a JSON file.

Parameters

aVector	A vector of scan results
alnFile	The name of the localization file
aOutputPattern	The name of the output JSON file

Definition at line 27 of file API.cpp.

Referenced by AutoRoi_Scan_ToJson(), ImageJRoi_Scan_ToJson(), and ManualRoi_Scan_ToJson().

4.2.1.5 AutoRoi_Cluster_FullCallback()

Automatically extract RoI, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 163 of file API.cpp.

Referenced by AutoRoi_Cluster_SimpleCallback().

4.2.1.6 AutoRoi_Cluster_SimpleCallback()

Automatically extract Rol, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 169 of file API.cpp.

References _FullClusterToSimpleCluster_(), and AutoRoi_Cluster_FullCallback().

Referenced by AutoRoi_Cluster_ToJson().

4.2.1.7 AutoRoi_Cluster_ToJson()

Automatically specify RoI, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the RoI id).

Definition at line 175 of file API.cpp.

 $References _Cluster Callback_Json_(), and AutoRoi_Cluster_Simple Callback().$

4.2.1.8 AutoRoi_Scan_FullCallback()

```
const ScanConfiguration & aScanConfig,
const tFullScanCallback & aCallback )
```

Automatically extract Rol, run scan and apply a full call-back.

Parameters

alnFile	The name of the localization file
aScanConfig	The configuration for the scan
aCallback	The full callback to be applied

Definition at line 143 of file API.cpp.

4.2.1.9 AutoRoi_Scan_SimpleCallback()

Automatically extract RoI, run scan and apply a simple call-back.

Parameters

alnFile	The name of the localization file
aScanConfig	The configuration for the scan
aCallback	The simple callback to be applied

Definition at line 149 of file API.cpp.

 $References _FullScanToSimpleScan_().$

Referenced by AutoRoi_Scan_ToJson().

4.2.1.10 AutoRoi_Scan_ToJson()

Automatically extract RoI, run scan and dump to JSON file.

alnFile	The name of the localization file
aScanConfig	The configuration for the scan
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are
Generated on Tue Jul 4 202(11) நூர்நார்கள் இரு முரியார்கள் இரு முற்றியில் முறியில்	

Definition at line 155 of file API.cpp.

References _ScanCallback_Json_(), and AutoRoi_Scan_SimpleCallback().

4.2.1.11 ImageJRoi_Cluster_FullCallback()

Extract Rol using an image-map, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
almageJfile	The name of an ImageJ RoI file file
aScale	The size of the LSB in the ImageJ file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 243 of file API.cpp.

Referenced by ImageJRoi_Cluster_SimpleCallback().

4.2.1.12 ImageJRoi_Cluster_SimpleCallback()

Extract Rol using an image-map, clusterize and apply a full call-back.

alnFile	The name of the localization file
almageJfile	The name of an ImageJ RoI file file
aScale	The size of the LSB in the ImageJ file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 249 of file API.cpp.

References _FullClusterToSimpleCluster_(), and ImageJRoi_Cluster_FullCallback().

Referenced by ImageJRoi_Cluster_ToJson().

4.2.1.13 ImageJRoi_Cluster_ToJson()

Extract Rol using an image-map, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
almageJfile	The name of an ImageJ Rol file file
aScale	The size of the LSB in the ImageJ file
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the Rol id).

Definition at line 255 of file API.cpp.

References _ClusterCallback_Json_(), and ImageJRoi_Cluster_SimpleCallback().

4.2.1.14 ImageJRoi_Scan_FullCallback()

Extract Rol using an image-map, run scan and apply a full call-back.

alnFile	The name of the localization file
almageJfile	The name of an ImageJ RoI file file
aScale	The size of the LSB in the ImageJ file
aScanConfig	The configuration for the scan
Generaled ap Tue Jul	4 792ê 14:19053 ୧୯୫୯୧୯:୬၂ ୋଜ୍ୟୁମ୍ବାଡ଼ by Doxygen

Definition at line 223 of file API.cpp.

4.2.1.15 ImageJRoi_Scan_SimpleCallback()

Extract Rol using an image-map, run scan and apply a simple call-back.

Parameters

alnFile	The name of the localization file
almageJfile	The name of an ImageJ RoI file file
aScale	The size of the LSB in the ImageJ file
aScanConfig	The configuration for the scan
aCallback	The simple callback to be applied

Definition at line 229 of file API.cpp.

References _FullScanToSimpleScan_().

Referenced by ImageJRoi_Scan_ToJson().

4.2.1.16 ImageJRoi_Scan_ToJson()

Extract Rol using an image-map, run scan and dump to JSON file.

alnFile	The name of the localization file
almageJfile	The name of an ImageJ Rol file file
aScale	The size of the LSB in the ImageJ file
aScanConfig	The configuration for the scan
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the RoI id).

Definition at line 235 of file API.cpp.

References _ScanCallback_Json_(), and ImageJRoi_Scan_SimpleCallback().

4.2.1.17 ManualRoi_Cluster_FullCallback()

Manually specify RoI, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified Rol window
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 203 of file API.cpp.

Referenced by ManualRoi_Cluster_SimpleCallback().

4.2.1.18 ManualRoi_Cluster_SimpleCallback()

Manually specify RoI, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified RoI window
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aCallback	The callback to be applied

Definition at line 209 of file API.cpp.

References _FullClusterToSimpleCluster_(), and ManualRoi_Cluster_FullCallback().

Referenced by ManualRoi_Cluster_ToJson().

4.2.1.19 ManualRoi_Cluster_ToJson()

Manually specify RoI, clusterize and apply a full call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified Rol window
aR	The R value of the clusterizer
аТ	The T value of the clusterizer
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the RoI id).

Definition at line 215 of file API.cpp.

References _ClusterCallback_Json_(), and ManualRoi_Cluster_SimpleCallback().

4.2.1.20 ManualRoi_Scan_FullCallback()

Manually specify Rol, run scan and apply a full call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified RoI window
aScanConfig The configuration for the scan	
aCallback	The full callback to be applied

Definition at line 183 of file API.cpp.

4.2.1.21 ManualRoi Scan SimpleCallback()

Manually specify Rol, run scan and apply a simple call-back.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified RoI window
aScanConfig	The configuration for the scan
aCallback	The simple callback to be applied

Definition at line 189 of file API.cpp.

References _FullScanToSimpleScan_().

Referenced by ManualRoi_Scan_ToJson().

4.2.1.22 ManualRoi_Scan_ToJson()

Manually specify RoI, run scan and dump to JSON file.

Parameters

alnFile	The name of the localization file
aManualRol	The manually-specified Rol window
aScanConfig	The configuration for the scan
aOutputPattern	A formattable-string specifying the name of the output JSON files. Substitutable fields are {input} (giving the stem of the input file name) and {roi} (giving the Rol id).

Definition at line 195 of file API.cpp.

References _ScanCallback_Json_(), and ManualRoi_Scan_SimpleCallback().

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