# 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

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# **Chapter 2**

# File Index

# 2.1 File List

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

include/BayesianClustering/API.hpp											 						9
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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)</li>
```

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

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# **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:

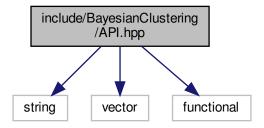
• include/BayesianClustering/API.hpp

# **Chapter 4**

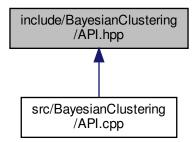
# **File Documentation**

# 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.

typedef std::function< void(const std::vector< ScanEntry > &) > tSimpleScanCallback

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 &aInFile, 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 ManualRol &aManualRol, 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.

# 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 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 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 \_ClusterCallback\_Json\_(), and AutoRoi\_Cluster\_SimpleCallback().

# 4.1.1.4 AutoRoi\_Scan\_FullCallback()

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

#### **Parameters**

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
	{input} (giving the stem of the input file name) and {roi} (giving the Rol id).

Definition at line 155 of file API.cpp.

References \_ScanCallback\_Json\_(), and AutoRoi\_Scan\_SimpleCallback().

# 4.1.1.7 ManualRoi Cluster FullCallback()

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

#### **Parameters**

	aInFile	The name of the localization file	
	aManualRol	The manually-specified Rol window	
	aR	The R value of the clusterizer	
Geggrated on Fri Jun अगन्धकारी किन्द्राहित किन्द्रिकारी स्थान		on 3中A&371√A7iile fof PhycetingsfluffizeFool by Dox	ygen
	aCallback	The callback to be applied	

Definition at line 203 of file API.cpp.

Referenced by ManualRoi\_Cluster\_SimpleCallback().

# 4.1.1.8 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.

 $References \_Full Cluster To Simple Cluster \_(), and Manual Roi\_Cluster \_Full Callback (). \\$ 

Referenced by ManualRoi\_Cluster\_ToJson().

# 4.1.1.9 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 Rol id).

Definition at line 215 of file API.cpp.

References \_ClusterCallback\_Json\_(), and ManualRoi\_Cluster\_SimpleCallback().

# 4.1.1.10 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.

# 4.1.1.11 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().

#### 4.1.1.12 ManualRoi\_Scan\_ToJson()

Manually specify Rol, 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<</li>
 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 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 ManualRol &aManualRol, 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.

#### 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(), and ManualRoi\_Cluster\_ToJson().

# 4.2.1.2 \_FullClusterToSimpleCluster\_()

```
void _FullClusterToSimpleCluster_ ( RoIproxy \ \& \ aRoIproxy, \\ const \ std::function< void(const \ std::vector< ClusterWrapper > \&) > \& \ aCallback \ )
```

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(), and ManualRoi\_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(), and ManualRoi\_Scan\_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(), and ManualRoi\_Scan\_ToJson().

# 4.2.1.5 AutoRoi\_Cluster\_FullCallback()

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

#### **Parameters**

aInFile	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 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 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 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
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 \_ClusterCallback\_Json\_(), and AutoRoi\_Cluster\_SimpleCallback().

# 4.2.1.8 AutoRoi\_Scan\_FullCallback()

Automatically extract RoI, 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()

```
const ScanConfiguration & aScanConfig,
const std::string & aOutputPattern )
```

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

#### **Parameters**

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 {input} (giving the stem of the input file name) and {roi} (giving the Rol id).

Definition at line 155 of file API.cpp.

References \_ScanCallback\_Json\_(), and AutoRoi\_Scan\_SimpleCallback().

# 4.2.1.11 ManualRoi\_Cluster\_FullCallback()

Manually specify Rol, 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().

# 4.2.1.12 ManualRoi\_Cluster\_SimpleCallback()

Manually specify Rol, 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 209 of file API.cpp.

References \_FullClusterToSimpleCluster\_(), and ManualRoi\_Cluster\_FullCallback().

Referenced by ManualRoi\_Cluster\_ToJson().

# 4.2.1.13 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 Rol id).

Definition at line 215 of file API.cpp.

References \_ClusterCallback\_Json\_(), and ManualRoi\_Cluster\_SimpleCallback().

# 4.2.1.14 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.

# 4.2.1.15 ManualRoi\_Scan\_SimpleCallback()

Manually specify RoI, 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().

# 4.2.1.16 ManualRoi\_Scan\_ToJson()

Manually specify Rol, 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 ISON 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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