AlgomateNestingFactory

Contents

1 Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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vector

2 Class Index

2.1 Class List

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

3 Class Documentation

3.1 amCATFacade Class Reference

Public Member Functions

- **amCATFacade** (amCATTask ∗pTask)
- void **registerCallback** (UponCompleteFnc pFn)
- bool **start** ()
- bool **terminate** ()
- eCATProcessState **getState** () const
- bool **compute** ()
- const vector< amCATNestingResult > & **getResults** () const

Friends

- DWORD __stdcall **amCATWaitingLoop** (LPVOID pFacade)

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

- amCATFacade.h

3.2   amCATInputArc Class Reference

Public Member Functions

- **amCATInputArc** (double x=0, double y=0, double b=0)

Public Attributes

- double **x_**
- double **y_**
- double **b_**

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

- amCATFacade.h

3.3   amCATInputContour Class Reference

Inherits vector< amCATInputArc >.

Public Member Functions

- **amCATInputContour** (double *pXYBtriples, int nOfTriples)

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

- amCATFacade.h

3.4   amCATInputDomain Class Reference

Inherits amCATInputItem.

Public Member Functions

- **amCATInputDomain** (const wstring &strFileName, const wstring &strName=L"", int nQuant=1)
- **amCATInputDomain** (int nID, double Length, double Width, int nQuant=1)
- double **getLength** () const
- void **setLength** (double Length)
- double **getWidth** () const
- void **setWidth** (double Width)

Protected Member Functions

- virtual bool **isDomain** () const

Additional Inherited Members

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

- amCATFacade.h

3.5 amCATInputItem Class Reference

Inherited by amCATInputDomain.

Public Member Functions

- **amCATInputItem** (const wstring &strFileName, const wstring &strName=L"", int nQuant=1, eCATRotation↩
  Step eRotation=CAT_FREE_ROTATION, bool bReflection=true)
- **amCATInputItem** (int nID, int nQuant=1, eCATRotationStep eRotation=CAT_FREE_ROTATION, bool b↩
  Reflection=true)
- **amCATInputItem** (const amCATInputItem &other)
- const wstring **getFileName** () const
- void **setFileName** (const wstring &strFileName)
- const wstring **getName** () const
- void **setName** (wstring &strName)
- long **getID** () const
- void **setID** (long nID)
- eCATRotationStep **getRotation** () const
- string **getRotationStepAsString** () const
- void **setRotation** (eCATRotationStep eRotation)
- int **getQuant** () const
- void **setQuant** (int nQuant)
- bool **getReflection** () const
- void **setReflection** (bool bReflection)
- int **addContour** (const amCATInputContour &c)
- bool **removeContour** (int nIndex)
- void **removeAllContours** ()
- int **getNumberOfContours** () const
- int **getContourLength** (int nIndex) const
- bool **GeometryIsInFile** () const

Protected Member Functions

- bool **writeInternalItemFile** (const wstring &wstrTargetFolder) const
- virtual bool **isDomain** () const

Protected Attributes

- long **nID_**
- wstring **strOrigFileName_**
- wstring **strName_**
- int **nQuant_**
- eCATRotationStep **eRotation_**
- bool **bReflection_**
- amCATInputPolygon **Multipolygon_**

Friends

- class **amCATTask**

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

- amCATFacade.h

3.6   amCATNestedItemInstance Class Reference

Public Attributes

- long **nOriginID_**
- long **nInstanceID_**
- wstring **strName_**
- amCATNestingTransform **Transform_**

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

- amCATFacade.h

3.7   amCATNestingResult Class Reference

Inherits vector< amCATNestedItemInstance >.

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

- amCATFacade.h

3.8   amCATNestingTransform Class Reference

Public Member Functions

- amCATNestingTransform & **operator=** (const amCATNestingTransform &o)

Public Attributes

- double **CCWRotationDegrees_**
- double **Vector_** [2]
- eCATNestingReflection **Reflection_**

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

- amCATFacade.h

3.9 amCATTask Class Reference

Public Member Functions

- **amCATTask** (eCATTaskType eTaskType=CAT_SHEET, double Item2ItemDist=5, double Item2Domain←↩
  Dist=5)
- bool **addInputItem** (amCATInputItem &Item)
- bool **addInputDomain** (amCATInputDomain &Domain)
- const vector< amCATNestingResult > & **getResults** () const
- eCATTaskType **getTaskType** () const
- void **setTaskType** (eCATTaskType eTaskType)
- eCATSpeedMode **getTaskSpeed** () const
- void **setTaskSpeed** (eCATSpeedMode eTaskSpeed)
- double **getItem2ItemDist** () const
- void **setItem2ItemDist** (double Dist)
- double **getItem2DomainDist** () const
- void **setItem2DomainDist** (double Dist)
- wstring **getResultFolder** () const
- void **setResultFolder** (const wstring &strResultFolder=L"∗")

Protected Member Functions

- bool **prepareToRun** ()
- bool **getResults** ()
- bool **writeTaskFile** () const
- bool **readIndxFile** ()
- bool **isEncryptedTraceFile** (const string &strTraceFileName)
- bool **readTraceFile** (const string &strTraceFileName)
- char **getUSBDriveLetter** () const
- string **getTmpDir** () const
- void **setTmpDir** (const string &strTmpDir)
- string **getDebugRoot** () const
- void **setDebugRoot** (const string &strDebugRoot)

Protected Attributes

- vector< amCATInputItem > **InputItems_**
- vector< amCATInputDomain > **InputDomains_**
- vector< amCATNestingResult > **NestingResults_**
- wstring **strResultFolder_**
- map< long, wstring > **InternalID2UserIDMap_**
- char **cUSBDriveLetter_**
- eCATTaskType **eTaskType_**
- eCATSpeedMode **eTaskSpeed_**
- double **Item2ItemDist_**
- double **Item2DomainDist_**
- int **nNextID_**
- string **strTmpDir_**
- string **strDebugRoot_**

Friends

- class **amCATFacade**
- DWORD __stdcall **amCATWaitingLoop** (LPVOID pFacade)

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

- amCATFacade.h

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