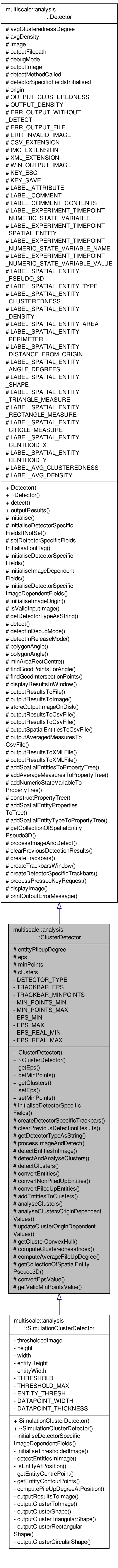
multiscale::analysis
::Detector
# avgClusterednessDegree
# avgDensity
# image
# outputFilepath
# debugMode
# outputImage
# detectMethodCalled
# detectorSpecificFieldsInitialised
# origin
# OUTPUT_CLUSTEREDNESS
# OUTPUT_DENSITY
# ERR_OUTPUT_WITHOUT
_DETECT
# ERR_OUTPUT_FILE
# ERR_INVALID_IMAGE
# CSV_EXTENSION
# IMG_EXTENSION
# XML_EXTENSION
# WIN_OUTPUT_IMAGE
# KEY_ESC
# KEY_SAVE
# LABEL_ATTRIBUTE
# LABEL_COMMENT
# LABEL_COMMENT_CONTENTS
# LABEL_EXPERIMENT_TIMEPOINT
_NUMERIC_STATE_VARIABLE
# LABEL_EXPERIMENT_TIMEPOINT
_SPATIAL_ENTITY
# LABEL_EXPERIMENT_TIMEPOINT
_NUMERIC_STATE_VARIABLE_NAME
# LABEL_EXPERIMENT_TIMEPOINT
_NUMERIC_STATE_VARIABLE_VALUE
# LABEL_SPATIAL_ENTITY
_PSEUDO_3D
# LABEL_SPATIAL_ENTITY_TYPE
# LABEL_SPATIAL_ENTITY
_CLUSTEREDNESS
# LABEL_SPATIAL_ENTITY
_DENSITY
# LABEL_SPATIAL_ENTITY_AREA
# LABEL_SPATIAL_ENTITY
_PERIMETER
# LABEL_SPATIAL_ENTITY
_DISTANCE_FROM_ORIGIN
# LABEL_SPATIAL_ENTITY
_ANGLE_DEGREES
# LABEL_SPATIAL_ENTITY
_SHAPE
# LABEL_SPATIAL_ENTITY
_TRIANGLE_MEASURE
# LABEL_SPATIAL_ENTITY
_RECTANGLE_MEASURE
# LABEL_SPATIAL_ENTITY
_CIRCLE_MEASURE
# LABEL_SPATIAL_ENTITY
_CENTROID_X
# LABEL_SPATIAL_ENTITY
_CENTROID_Y
# LABEL_AVG_CLUSTEREDNESS
# LABEL_AVG_DENSITY
+ Detector()
+ ~Detector()
+ detect()
+ outputResults()
# initialise()
# initialiseDetectorSpecific
FieldsIfNotSet()
# setDetectorSpecificFields
InitialisationFlag()
# initialiseDetectorSpecific
Fields()
# initialiseImageDependent
Fields()
# initialiseDetectorSpecific
ImageDependentFields()
# initialiseImageOrigin()
# isValidInputImage()
# getDetectorTypeAsString()
# detect()
# detectInDebugMode()
# detectInReleaseMode()
# polygonAngle()
# polygonAngle()
# minAreaRectCentre()
# findGoodPointsForAngle()
# findGoodIntersectionPoints()
# displayResultsInWindow()
# outputResultsToFile()
# outputResultsToImage()
# storeOutputImageOnDisk()
# outputResultsToCsvFile()
# outputResultsToCsvFile()
# outputSpatialEntitiesToCsvFile()
# outputAveragedMeasuresTo
CsvFile()
# outputResultsToXMLFile()
# outputResultsToXMLFile()
# addSpatialEntitiesToPropertyTree()
# addAverageMeasuresToPropertyTree()
# addNumericStateVariableTo
PropertyTree()
# constructPropertyTree()
# addSpatialEntityProperties
ToTree()
# addSpatialEntityTypeToPropertyTree()
# getCollectionOfSpatialEntity
Pseudo3D()
# processImageAndDetect()
# clearPreviousDetectionResults()
# createTrackbars()
# createTrackbarsWindow()
# createDetectorSpecificTrackbars()
# processPressedKeyRequest()
# displayImage()
# printOutputErrorMessage()
multiscale::analysis
::ClusterDetector
# entityPileupDegree
# eps
# minPoints
# clusters
- DETECTOR_TYPE
- TRACKBAR_EPS
- TRACKBAR_MINPOINTS
- MIN_POINTS_MIN
- MIN_POINTS_MAX
- EPS_MIN
- EPS_MAX
- EPS_REAL_MIN
- EPS_REAL_MAX
+ ClusterDetector()
+ ~ClusterDetector()
+ getEps()
+ getMinPoints()
+ getClusters()
+ setEps()
+ setMinPoints()
# initialiseDetectorSpecific
Fields()
# createDetectorSpecificTrackbars()
# clearPreviousDetectionResults()
# getDetectorTypeAsString()
# processImageAndDetect()
# detectEntitiesInImage()
# detectAndAnalyseClusters()
# detectClusters()
# convertEntities()
# convertNonPiledUpEntities()
# convertPiledUpEntities()
# addEntitiesToClusters()
# analyseClusters()
# analyseClustersOriginDependent
Values()
# updateClusterOriginDependent
Values()
# getClusterConvexHull()
# computeClusterednessIndex()
# computeAveragePileUpDegree()
# getCollectionOfSpatialEntity
Pseudo3D()
# convertEpsValue()
# getValidMinPointsValue()
multiscale::analysis
::SimulationClusterDetector
- thresholdedImage
- height
- width
- entityHeight
- entityWidth
- THRESHOLD
- THRESHOLD_MAX
- ENTITY_THRESH
- DATAPOINT_WIDTH
- DATAPOINT_THICKNESS
+ SimulationClusterDetector()
+ ~SimulationClusterDetector()
- initialiseDetectorSpecific
ImageDependentFields()
- initialiseThresholdedImage()
- detectEntitiesInImage()
- isEntityAtPosition()
- getEntityCentrePoint()
- getEntityContourPoints()
- computePileUpDegreeAtPosition()
- outputResultsToImage()
- outputClusterToImage()
- outputClusterShape()
- outputClusterTriangularShape()
- outputClusterRectangular
Shape()
- outputClusterCircularShape()