multiscale::analysis ::Detector

image
outputFilepath
debugMode
outputImage
detectMethodCalled
detectorSpecificFieldsInitialised
origin

+ Detector()
+ ~Detector()
+ detect()
+ outputResults()
# initialise()
# initialiseDetectorSpecific
FieldsIfNotSet()
# setDetectorSpecificFields
InitialisationFlag()
# initialiseDetectorSpecific
Fields()
# initialiseImageDependent
Fields()
# initialiseDetectorSpecific
ImageDependentFields()
# initialiseImageOrigin()
# isValidInputImage()
# detect()
# detectInDebugMode()
# detectInReleaseMode()
# polygonAngle()
# polygonAngle()
# minAreaRectCentre()
# findGoodPointsForAngle()
# findGoodIntersectionPoints()
# displayResultsInWindow()
# outputResultsToFile()
# outputResultsToImage()
# storeOutputImageOnDisk()
# outputResultsToCsvFile()
# outputResultsToCsvFile()
# processImageAndDetect()
# clearPreviousDetectionResults()
# createTrackbars()
# createTrackbarsWindow()
# createDetectorSpecificTrackbars()
# processPressedKeyRequest()
# displayImage()
# printOutputErrorMessage()

---

multiscale::analysis ::ClusterDetector

clusterednessIndex
avgPileUpDegree
entityPileupDegree
eps
minPoints
clusters

+ ClusterDetector()
+ ~ClusterDetector()
+ getEps()
+ getMinPoints()
+ getClusters()
+ setEps()
+ setMinPoints()
# initialiseDetectorSpecific
Fields()
# createDetectorSpecificTrackbars()
# clearPreviousDetectionResults()
# processImageAndDetect()
# detectEntitiesInImage()
# detectAndAnalyseClusters()
# detectClusters()
# convertEntities()
# convertNonPiledUpEntities()
# convertPiledUpEntities()
# addEntitiesToClusters()
# analyseClusters()
# analyseClustersOriginDependent
Values()
# updateClusterOriginDependent
Values()
# getClusterConvexHull()
# computeClusterednessIndex()
# computeAveragePileUpDegree()
# outputResultsToCsvFile()
# convertEpsValue()
# getValidMinPointsValue()

---

multiscale::analysis ::SimulationClusterDetector

- thresholdedImage
- height
- width
- entityHeight
- entityWidth

+ SimulationClusterDetector()
+ ~SimulationClusterDetector()
- initialiseDetectorSpecific
ImageDependentFields()
- initialiseThresholdedImage()
- detectEntitiesInImage()
- isEntityAtPosition()
- getEntityCentrePoint()
- getEntityContourPoints()
- computePileUpDegreeAtPosition()
- outputResultsToImage()
- outputClusterToImage()
- outputClusterShape()
- outputClusterTriangularShape()
- outputClusterRectangular
Shape()
- outputClusterCircularShape()