```
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()
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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()
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- outputClusterTriangularShape()- outputClusterRectangular

outputClusterCircularShape()

Shape()