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multiscale::analysis
             ::Detector
# image
# outputFilepath
# debugMode
# outputImage
# detectMethodCalled
# detectorSpecificFieldsInitialised
+ Detector()
+ ~Detector()
+ detect()
+ outputResults()
# initialise()
# initialiseDetectorSpecific
FieldsIfNotSet()
# initialiseDetectorSpecific
Fields()
# initialiseImageDependent
Fields()
# isValidInputImage()
# detect()
# detectInDebugMode()
# detectInReleaseMode()
# displayResultsInWindow()
# outputResultsToFile()
# outputResultsToImage()
# storeOutputImageOnDisk()
# outputResultsToCsvFile()
# outputResultsToCsvFile()
# processImageAndDetect()
# clearPreviousDetectionResults()
# createTrackbars()
# createTrackbarsWindow()
# createDetectorSpecificTrackbars()
# processPressedKeyRequest()
# displayImage()
# printOutputErrorMessage()
multiscale::analysis
         ::ClusterDetector
# clusterednessIndex
# avgPileUpDegree
# entityPileupDegree
# minPoints
# clusters
+ ClusterDetector()
+ ~ClusterDetector()
+ getEps()
+ getMinPoints()
+ getClusters()
+ setEps()
+ setMinPoints()
# initialiseDetectorSpecific
Fields()
# createDetectorSpecificTrackbars()
# clearPreviousDetectionResults()
# processImageAndDetect()
# detectEntitiesInImage()
# detectAndAnalyseClusters()
# detectClusters()
# convertEntities()
# convertNonPiledUpEntities()
# convertPiledUpEntities()
# addEntitiesToClusters()
# analyseClusters()
# computeClusterednessIndex()
# computeAveragePileUpDegree()
# outputResultsToCsvFile()
# convertEpsValue()
# getValidMinPointsValue()
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multiscale::analysis
    ::SimulationClusterDetector

    thresholdedImage

- height
- width

    entityHeight

    entityWidth

+ SimulationClusterDetector()
+ ~SimulationClusterDetector()

    initialiseImageDependent

    initialiseThresholdedImage()

    detectEntitiesInImage()

isEntityAtPosition()
getEntityCentrePoint()
- getEntityContourPoints()
computePileUpDegreeAtPosition()
- outputResultsToImage()
- outputClusterToImage()
outputClusterShape()
outputClusterTriangularShape()

    outputClusterRectangular

Shape()
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outputClusterCircularShape()