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 and 23 more... + Detector() + ~Detector() + detect() + outputResults() # initialise() # initialiseDetectorSpecificFieldsIfNotSet() # setDetectorSpecificFieldsInitialisationFlag() # initialiseDetectorSpecificFields() # initialiseImageDependentFields() # initialiseDetectorSpecificImageDependentFields() # initialiseImageOrigin() # isValidInputImage() # getDetectorTypeAsString() # detect() and 31 more... multiscale::analysis::RegionDetector - alpha - beta - blurKernelSize multiscale::analysis::ClusterDetector - morphologicalCloseIterations epsilon # entityPileupDegree - regionAreaThresh - thresholdValue - regions - DETECTOR_TYPE - DETECTOR_TYPE - TRACKBAR_ALPHA - TRACKBAR_EPS TRACKBAR_BETA - TRACKBAR_MINPOINTS - TRACKBAR_KERNEL - MIN_POINTS_MIN - TRACKBAR_MORPH - MIN_POINTS_MAX TRACKBAR_CANNY - TRACKBAR_EPSILON - EPS MAX - TRACKBAR_REGION_AREA_THRESH - EPS_REAL_MIN TRACKBAR_THRESHOLD - EPS_REAL_MAX - USE_CANNY_L2 and 16 more... + ClusterDetector() + ~ClusterDetector() + RegionDetector() + ~RegionDetector() + getMinPoints() + getAlpha() + getClusters() + getBeta() + getBlurKernelSize() + setMinPoints() + getEpsilon() # initialiseDetectorSpecificFields() + getMorphologicalCloseIterations() # createDetectorSpecificTrackbars() + getOriginXCoordinate() # clearPreviousDetectionResults() + getOriginYCoordinate() # getDetectorTypeAsString() + getRegionAreaThresh() # processImageAndDetect() and 10 more...- initialiseDetectorSpecificFields() # detectEntitiesInImage() - initialiseDetectorSpecificImageDependentFields() # detectAndAnalyseClusters() - createDetectorSpecificTrackbars() # detectClusters() getDetectorTypeAsString() # convertEntities() - processImageAndDetect() # convertNonPiledUpEntities() - changeContrastAndBrightness() and 10 more... - smoothImage() - morphologicalClose() - thresholdImage() - findRegions() and 14 more...

multiscale::analysis::Detector

avgClusterednessDegree

multiscale::analysis::SimulationClusterDetector - thresholdedImage

- height

eps

minPoints

- EPS MIN

+ getEps()

+ setEps()

clusters

- width
- entityHeight
- entityWidth
- THRESHOLD
- THRESHOLD_MAX
- ENTITY THRESH
- DATAPOINT_WIDTH
- DATAPOINT_THICKNESS
- + SimulationClusterDetector()

- + ~SimulationClusterDetector()
- initialiseDetectorSpecificImageDependentFields()
- initialiseThresholdedImage() detectEntitiesInImage()
- isEntityAtPosition()
- getEntityCentrePoint()
- getEntityContourPoints()
- computePileUpDegreeAtPosition()
- outputResultsToImage()
- outputClusterToImage() - outputClusterShape()
- outputClusterTriangularShape() - outputClusterRectangularShape()
- outputClusterCircularShape()