```
# 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
                and 23 more...
+ Detector()
+ ~Detector()
+ detect()
+ outputResults()
# initialise()
# initialiseDetectorSpecificFieldsIfNotSet()
# setDetectorSpecificFieldsInitialisationFlag()
# initialiseDetectorSpecificFields()
# initialiseImageDependentFields()
# initialiseDetectorSpecificImageDependentFields()
# initialiseImageOrigin()
# isValidInputImage()
# getDetectorTypeAsString()
# detect()
                 and 31 more...
                       Δ
      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()
      # initialiseDetectorSpecificFields()
      # createDetectorSpecificTrackbars()
       # clearPreviousDetectionResults()
      # getDetectorTypeAsString()
      # processImageAndDetect()
      # detectEntitiesInImage()
      # detectAndAnalyseClusters()
      # detectClusters()
      # convertEntities()
      # convertNonPiledUpEntities()
                 and 10 more...
                       Δ
 multiscale::analysis::SimulationClusterDetector

    thresholdedImage

- height

    width

- entityHeight
- entityWidth
- THRESHOLD
 THRESHOLD_MAX
ENTITY_THRESH
- DATAPOINT_WIDTH

    DATAPOINT_THICKNESS

+ SimulationClusterDetector()
+ ~SimulationClusterDetector()

    initialiseDetectorSpecificImageDependentFields()

    initialiseThresholdedImage()

- detectEntitiesInImage()
isEntityAtPosition()
getEntityCentrePoint()
- getEntityContourPoints()
```

- computePileUpDegreeAtPosition()

- outputClusterTriangularShape()
 - outputClusterRectangularShape()
 - outputClusterCircularShape()

- outputResultsToImage()- outputClusterToImage()- outputClusterShape()

multiscale::analysis::Detector