multiscale::analysis ::Detector

image
outputFilepath
debugMode
outputImage
detectMethodCalled
detectorSpecificFieldsInitialised
origin
ERR_OUTPUT_WITHOUT _DETECT
ERR_OUTPUT_FILE
ERR_INVALID_IMAGE
OUTPUT_EXTENSION
IMG_EXTENSION
WIN_OUTPUT_IMAGE
KEY_ESC
KEY_SAVE

+ 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 ::RegionDetector

- avgClusterednessDegree
- avgDensity
- alpha
- beta
- blurKernelSize
- morphologicalCloseIterations
- epsilon
- regionAreaThresh
- thresholdValue
- regions
- OUTPUT_CLUSTEREDNESS
- OUTPUT_DENSITY
- TRACKBAR_ALPHA
- TRACKBAR_BETA
- TRACKBAR_KERNEL
- TRACKBAR_MORPH
- TRACKBAR_CANNY
- TRACKBAR_EPSILON
- TRACKBAR_REGION_AREA _THRESH
- TRACKBAR_THRESHOLD
- USE_CANNY_L2
- CONTOUR_AREA_ORIENTED
- ALPHA_REAL_MIN
- ALPHA_REAL_MAX
- BETA_REAL_MIN
- BETA_REAL_MAX
- ALPHA_MAX
- BETA_MAX
- KERNEL_MAX
- MORPH_ITER_MAX
- CANNY_THRESH_MAX
- EPSILON_MAX
- REGION_AREA_THRESH_MAX
- THRESHOLD_MAX
- THRESHOLD_CLUSTEREDNESS
- INTENSITY_MAX
- POLYGON_CLOSED
- DISPLAY_LINE_THICKNESS

+ RegionDetector()
+ ~RegionDetector()
+ getAlpha()
+ getBeta()
+ getBlurKernelSize()
+ getEpsilon()
+ getMorphologicalCloseIterations()
+ getOriginXCoordinate()
+ getOriginYCoordinate()
+ getRegionAreaThresh()
+ getThresholdValue()
+ getRegions()
+ setAlpha()
+ setBeta()
+ setBlurKernelSize()
+ setEpsilon()
+ setMorphologicalCloseIterations()
+ setOriginXCoordinate()
+ setOriginYCoordinate()
+ setRegionAreaThresh()
+ setThresholdValue()
- initialiseDetectorSpecific Fields()
- initialiseDetectorSpecific ImageDependentFields()
- createDetectorSpecificTrackbars()
- processImageAndDetect()
- changeContrastAndBrightness()
- smoothImage()
- morphologicalClose()
- thresholdImage()
- findRegions()
- computeAverageMeasures()
- computeAverageClusteredness Degree()
- computeAverageDensity()
- findContoursInImage()
- createRegionFromPolygon()
- isValidRegion()
- regionClusterednessDegree()
- regionDensity()
- regionArea()
- regionHolesArea()
- clearPreviousDetectionResults()
- outputResultsToCsvFile()
- outputRegionsToCsvFile()
- outputAveragedMeasuresTo CsvFile()
- outputResultsToImage()
- convertAlpha()
- convertBeta()