JavaScript is disabled on your browser.

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Tree](http://docs.google.com/package-tree.html)
* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/opencv/imgproc/CLAHE.html)
* [Next Class](http://docs.google.com/org/opencv/imgproc/GeneralizedHoughBallard.html)
* [Frames](http://docs.google.com/index.html?org/opencv/imgproc/GeneralizedHough.html)
* [No Frames](http://docs.google.com/GeneralizedHough.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
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* Constr |
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org.opencv.imgproc

## Class GeneralizedHough

* java.lang.Object
  + [org.opencv.core.Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)
    - org.opencv.imgproc.GeneralizedHough
* Direct Known Subclasses: [GeneralizedHoughBallard](http://docs.google.com/org/opencv/imgproc/GeneralizedHoughBallard.html), [GeneralizedHoughGuil](http://docs.google.com/org/opencv/imgproc/GeneralizedHoughGuil.html)  
    
  public class GeneralizedHough  
  extends [Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)  
  finds arbitrary template in the grayscale image using Generalized Hough Transform

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [GeneralizedHough](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#__fromPtr__(long))(long addr) |
| void | [**detect**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#detect(org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [Mat](http://docs.google.com/org/opencv/core/Mat.html) positions) |
| void | [**detect**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#detect(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [Mat](http://docs.google.com/org/opencv/core/Mat.html) positions, [Mat](http://docs.google.com/org/opencv/core/Mat.html) votes) |
| void | [**detect**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#detect(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) edges, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dx, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dy, [Mat](http://docs.google.com/org/opencv/core/Mat.html) positions) |
| void | [**detect**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#detect(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) edges, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dx, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dy, [Mat](http://docs.google.com/org/opencv/core/Mat.html) positions, [Mat](http://docs.google.com/org/opencv/core/Mat.html) votes) |
| int | [**getCannyHighThresh**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#getCannyHighThresh())() |
| int | [**getCannyLowThresh**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#getCannyLowThresh())() |
| double | [**getDp**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#getDp())() |
| int | [**getMaxBufferSize**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#getMaxBufferSize())() |
| double | [**getMinDist**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#getMinDist())() |
| void | [**setCannyHighThresh**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#setCannyHighThresh(int))(int cannyHighThresh) |
| void | [**setCannyLowThresh**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#setCannyLowThresh(int))(int cannyLowThresh) |
| void | [**setDp**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#setDp(double))(double dp) |
| void | [**setMaxBufferSize**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#setMaxBufferSize(int))(int maxBufferSize) |
| void | [**setMinDist**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#setMinDist(double))(double minDist) |
| void | [**setTemplate**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#setTemplate(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) templ) |
| void | [**setTemplate**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#setTemplate(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) edges, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dx, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dy) |
| void | [**setTemplate**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#setTemplate(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.Point))([Mat](http://docs.google.com/org/opencv/core/Mat.html) edges, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dx, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dy, [Point](http://docs.google.com/org/opencv/core/Point.html) templCenter) |
| void | [**setTemplate**](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html#setTemplate(org.opencv.core.Mat,%20org.opencv.core.Point))([Mat](http://docs.google.com/org/opencv/core/Mat.html) templ, [Point](http://docs.google.com/org/opencv/core/Point.html) templCenter) |

### Methods inherited from class org.opencv.core.[**Algorithm**](http://docs.google.com/org/opencv/core/Algorithm.html)[clear](http://docs.google.com/org/opencv/core/Algorithm.html#clear()), [empty](http://docs.google.com/org/opencv/core/Algorithm.html#empty()), [getDefaultName](http://docs.google.com/org/opencv/core/Algorithm.html#getDefaultName()), [getNativeObjAddr](http://docs.google.com/org/opencv/core/Algorithm.html#getNativeObjAddr()), [save](http://docs.google.com/org/opencv/core/Algorithm.html#save(java.lang.String))

### Methods inherited from class java.lang.Objectequals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Method Detail

#### \_\_fromPtr\_\_ public static [GeneralizedHough](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html) \_\_fromPtr\_\_(long addr)

#### detect public void detect([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [Mat](http://docs.google.com/org/opencv/core/Mat.html) positions)

#### detect public void detect([Mat](http://docs.google.com/org/opencv/core/Mat.html) image, [Mat](http://docs.google.com/org/opencv/core/Mat.html) positions, [Mat](http://docs.google.com/org/opencv/core/Mat.html) votes)

#### detect public void detect([Mat](http://docs.google.com/org/opencv/core/Mat.html) edges, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dx, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dy, [Mat](http://docs.google.com/org/opencv/core/Mat.html) positions)

#### detect public void detect([Mat](http://docs.google.com/org/opencv/core/Mat.html) edges, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dx, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dy, [Mat](http://docs.google.com/org/opencv/core/Mat.html) positions, [Mat](http://docs.google.com/org/opencv/core/Mat.html) votes)

#### getCannyHighThresh public int getCannyHighThresh()

#### getCannyLowThresh public int getCannyLowThresh()

#### getDp public double getDp()

#### getMaxBufferSize public int getMaxBufferSize()

#### getMinDist public double getMinDist()

#### setCannyHighThresh public void setCannyHighThresh(int cannyHighThresh)

#### setCannyLowThresh public void setCannyLowThresh(int cannyLowThresh)

#### setDp public void setDp(double dp)

#### setMaxBufferSize public void setMaxBufferSize(int maxBufferSize)

#### setMinDist public void setMinDist(double minDist)

#### setTemplate public void setTemplate([Mat](http://docs.google.com/org/opencv/core/Mat.html) templ)

#### setTemplate public void setTemplate([Mat](http://docs.google.com/org/opencv/core/Mat.html) edges, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dx, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dy)

#### setTemplate public void setTemplate([Mat](http://docs.google.com/org/opencv/core/Mat.html) edges, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dx, [Mat](http://docs.google.com/org/opencv/core/Mat.html) dy, [Point](http://docs.google.com/org/opencv/core/Point.html) templCenter)

#### setTemplate public void setTemplate([Mat](http://docs.google.com/org/opencv/core/Mat.html) templ, [Point](http://docs.google.com/org/opencv/core/Point.html) templCenter)

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* [Index](http://docs.google.com/index-all.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/org/opencv/imgproc/CLAHE.html)
* [Next Class](http://docs.google.com/org/opencv/imgproc/GeneralizedHoughBallard.html)
* [Frames](http://docs.google.com/index.html?org/opencv/imgproc/GeneralizedHough.html)
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