JavaScript is disabled on your browser.

* [Overview](http://docs.google.com/overview-summary.html)
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* [Tree](http://docs.google.com/package-tree.html)
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org.opencv.features2d

## Class BRISK

* java.lang.Object
  + [org.opencv.core.Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)
    - [org.opencv.features2d.Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html)
      * org.opencv.features2d.BRISK
* public class BRISK  
  extends [Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html)  
  Class implementing the BRISK keypoint detector and descriptor extractor, described in CITE: LCS11 .

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/features2d/BRISK.html#__fromPtr__(long))(long addr) |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create())() The BRISK constructor keypoint. |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(int))(int thresh) The BRISK constructor |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(int,%20int))(int thresh, int octaves) The BRISK constructor |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(int,%20int,%20float))(int thresh, int octaves, float patternScale) The BRISK constructor |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(int,%20int,%20org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfInt))(int thresh, int octaves, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList) The BRISK constructor for a custom pattern, detection threshold and octaves |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(int,%20int,%20org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfInt,%20float))(int thresh, int octaves, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax) The BRISK constructor for a custom pattern, detection threshold and octaves |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(int,%20int,%20org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfInt,%20float,%20float))(int thresh, int octaves, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax, float dMin) The BRISK constructor for a custom pattern, detection threshold and octaves |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(int,%20int,%20org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfInt,%20float,%20float,%20org.opencv.core.MatOfInt))(int thresh, int octaves, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax, float dMin, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) indexChange) The BRISK constructor for a custom pattern, detection threshold and octaves |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfInt))([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList) The BRISK constructor for a custom pattern |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfInt,%20float))([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax) The BRISK constructor for a custom pattern |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfInt,%20float,%20float))([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax, float dMin) The BRISK constructor for a custom pattern |
| static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) | [**create**](http://docs.google.com/org/opencv/features2d/BRISK.html#create(org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfInt,%20float,%20float,%20org.opencv.core.MatOfInt))([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax, float dMin, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) indexChange) The BRISK constructor for a custom pattern |
| java.lang.String | [**getDefaultName**](http://docs.google.com/org/opencv/features2d/BRISK.html#getDefaultName())() Returns the algorithm string identifier. |

### Methods inherited from class org.opencv.features2d.[**Feature2D**](http://docs.google.com/org/opencv/features2d/Feature2D.html)[compute](http://docs.google.com/org/opencv/features2d/Feature2D.html#compute(java.util.List,%20java.util.List,%20java.util.List)), [compute](http://docs.google.com/org/opencv/features2d/Feature2D.html#compute(org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint,%20org.opencv.core.Mat)), [defaultNorm](http://docs.google.com/org/opencv/features2d/Feature2D.html#defaultNorm()), [descriptorSize](http://docs.google.com/org/opencv/features2d/Feature2D.html#descriptorSize()), [descriptorType](http://docs.google.com/org/opencv/features2d/Feature2D.html#descriptorType()), [detect](http://docs.google.com/org/opencv/features2d/Feature2D.html#detect(java.util.List,%20java.util.List)), [detect](http://docs.google.com/org/opencv/features2d/Feature2D.html#detect(java.util.List,%20java.util.List,%20java.util.List)), [detect](http://docs.google.com/org/opencv/features2d/Feature2D.html#detect(org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint)), [detect](http://docs.google.com/org/opencv/features2d/Feature2D.html#detect(org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint,%20org.opencv.core.Mat)), [detectAndCompute](http://docs.google.com/org/opencv/features2d/Feature2D.html#detectAndCompute(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint,%20org.opencv.core.Mat)), [detectAndCompute](http://docs.google.com/org/opencv/features2d/Feature2D.html#detectAndCompute(org.opencv.core.Mat,%20org.opencv.core.Mat,%20org.opencv.core.MatOfKeyPoint,%20org.opencv.core.Mat,%20boolean)), [empty](http://docs.google.com/org/opencv/features2d/Feature2D.html#empty()), [read](http://docs.google.com/org/opencv/features2d/Feature2D.html#read(java.lang.String)), [write](http://docs.google.com/org/opencv/features2d/Feature2D.html#write(java.lang.String))

### 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()), [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 [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) \_\_fromPtr\_\_(long addr)

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create() The BRISK constructor keypoint.Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create(int thresh) The BRISK constructorParameters:thresh - AGAST detection threshold score. keypoint. Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create(int thresh, int octaves) The BRISK constructorParameters:thresh - AGAST detection threshold score.octaves - detection octaves. Use 0 to do single scale. keypoint. Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create(int thresh, int octaves, float patternScale) The BRISK constructorParameters:thresh - AGAST detection threshold score.octaves - detection octaves. Use 0 to do single scale.patternScale - apply this scale to the pattern used for sampling the neighbourhood of a keypoint. Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create(int thresh, int octaves, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList) The BRISK constructor for a custom pattern, detection threshold and octavesParameters:thresh - AGAST detection threshold score.octaves - detection octaves. Use 0 to do single scale.radiusList - defines the radii (in pixels) where the samples around a keypoint are taken (for keypoint scale 1).numberList - defines the number of sampling points on the sampling circle. Must be the same size as radiusList.. scale 1). keypoint scale 1). Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create(int thresh, int octaves, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax) The BRISK constructor for a custom pattern, detection threshold and octavesParameters:thresh - AGAST detection threshold score.octaves - detection octaves. Use 0 to do single scale.radiusList - defines the radii (in pixels) where the samples around a keypoint are taken (for keypoint scale 1).numberList - defines the number of sampling points on the sampling circle. Must be the same size as radiusList..dMax - threshold for the short pairings used for descriptor formation (in pixels for keypoint scale 1). keypoint scale 1). Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create(int thresh, int octaves, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax, float dMin) The BRISK constructor for a custom pattern, detection threshold and octavesParameters:thresh - AGAST detection threshold score.octaves - detection octaves. Use 0 to do single scale.radiusList - defines the radii (in pixels) where the samples around a keypoint are taken (for keypoint scale 1).numberList - defines the number of sampling points on the sampling circle. Must be the same size as radiusList..dMax - threshold for the short pairings used for descriptor formation (in pixels for keypoint scale 1).dMin - threshold for the long pairings used for orientation determination (in pixels for keypoint scale 1). Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create(int thresh, int octaves, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax, float dMin, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) indexChange) The BRISK constructor for a custom pattern, detection threshold and octavesParameters:thresh - AGAST detection threshold score.octaves - detection octaves. Use 0 to do single scale.radiusList - defines the radii (in pixels) where the samples around a keypoint are taken (for keypoint scale 1).numberList - defines the number of sampling points on the sampling circle. Must be the same size as radiusList..dMax - threshold for the short pairings used for descriptor formation (in pixels for keypoint scale 1).dMin - threshold for the long pairings used for orientation determination (in pixels for keypoint scale 1).indexChange - index remapping of the bits. Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList) The BRISK constructor for a custom patternParameters:radiusList - defines the radii (in pixels) where the samples around a keypoint are taken (for keypoint scale 1).numberList - defines the number of sampling points on the sampling circle. Must be the same size as radiusList.. scale 1). keypoint scale 1). Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax) The BRISK constructor for a custom patternParameters:radiusList - defines the radii (in pixels) where the samples around a keypoint are taken (for keypoint scale 1).numberList - defines the number of sampling points on the sampling circle. Must be the same size as radiusList..dMax - threshold for the short pairings used for descriptor formation (in pixels for keypoint scale 1). keypoint scale 1). Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax, float dMin) The BRISK constructor for a custom patternParameters:radiusList - defines the radii (in pixels) where the samples around a keypoint are taken (for keypoint scale 1).numberList - defines the number of sampling points on the sampling circle. Must be the same size as radiusList..dMax - threshold for the short pairings used for descriptor formation (in pixels for keypoint scale 1).dMin - threshold for the long pairings used for orientation determination (in pixels for keypoint scale 1). Returns:automatically generated

#### create public static [BRISK](http://docs.google.com/org/opencv/features2d/BRISK.html) create([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) radiusList, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) numberList, float dMax, float dMin, [MatOfInt](http://docs.google.com/org/opencv/core/MatOfInt.html) indexChange) The BRISK constructor for a custom patternParameters:radiusList - defines the radii (in pixels) where the samples around a keypoint are taken (for keypoint scale 1).numberList - defines the number of sampling points on the sampling circle. Must be the same size as radiusList..dMax - threshold for the short pairings used for descriptor formation (in pixels for keypoint scale 1).dMin - threshold for the long pairings used for orientation determination (in pixels for keypoint scale 1).indexChange - index remapping of the bits. Returns:automatically generated

#### getDefaultName public java.lang.String getDefaultName() **Description copied from class:**[**Algorithm**](http://docs.google.com/org/opencv/core/Algorithm.html#getDefaultName()) Returns the algorithm string identifier. This string is used as top level xml/yml node tag when the object is saved to a file or string.**Overrides:** [getDefaultName](http://docs.google.com/org/opencv/features2d/Feature2D.html#getDefaultName()) in class [Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) Returns:automatically generated

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