JavaScript is disabled on your browser.

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org.opencv.features2d

## Class AffineFeature

* 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.AffineFeature
* public class AffineFeature  
  extends [Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html)  
  Class for implementing the wrapper which makes detectors and extractors to be affine invariant, described as ASIFT in CITE: YM11 .

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/features2d/AffineFeature.html#__fromPtr__(long))(long addr) |
| static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) | [**create**](http://docs.google.com/org/opencv/features2d/AffineFeature.html#create(org.opencv.features2d.Feature2D))([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend) |
| static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) | [**create**](http://docs.google.com/org/opencv/features2d/AffineFeature.html#create(org.opencv.features2d.Feature2D,%20int))([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend, int maxTilt) |
| static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) | [**create**](http://docs.google.com/org/opencv/features2d/AffineFeature.html#create(org.opencv.features2d.Feature2D,%20int,%20int))([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend, int maxTilt, int minTilt) |
| static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) | [**create**](http://docs.google.com/org/opencv/features2d/AffineFeature.html#create(org.opencv.features2d.Feature2D,%20int,%20int,%20float))([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend, int maxTilt, int minTilt, float tiltStep) |
| static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) | [**create**](http://docs.google.com/org/opencv/features2d/AffineFeature.html#create(org.opencv.features2d.Feature2D,%20int,%20int,%20float,%20float))([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend, int maxTilt, int minTilt, float tiltStep, float rotateStepBase) |
| java.lang.String | [**getDefaultName**](http://docs.google.com/org/opencv/features2d/AffineFeature.html#getDefaultName())() Returns the algorithm string identifier. |
| void | [**getViewParams**](http://docs.google.com/org/opencv/features2d/AffineFeature.html#getViewParams(org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfFloat))([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) tilts, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) rolls) |
| void | [**setViewParams**](http://docs.google.com/org/opencv/features2d/AffineFeature.html#setViewParams(org.opencv.core.MatOfFloat,%20org.opencv.core.MatOfFloat))([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) tilts, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) rolls) |

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

#### create public static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) create([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend)Parameters:backend - The detector/extractor you want to use as backend. Returns:automatically generated

#### create public static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) create([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend, int maxTilt)Parameters:backend - The detector/extractor you want to use as backend.maxTilt - The highest power index of tilt factor. 5 is used in the paper as tilt sampling range n. Returns:automatically generated

#### create public static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) create([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend, int maxTilt, int minTilt)Parameters:backend - The detector/extractor you want to use as backend.maxTilt - The highest power index of tilt factor. 5 is used in the paper as tilt sampling range n.minTilt - The lowest power index of tilt factor. 0 is used in the paper. Returns:automatically generated

#### create public static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) create([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend, int maxTilt, int minTilt, float tiltStep)Parameters:backend - The detector/extractor you want to use as backend.maxTilt - The highest power index of tilt factor. 5 is used in the paper as tilt sampling range n.minTilt - The lowest power index of tilt factor. 0 is used in the paper.tiltStep - Tilt sampling step \(\delta\_t\) in Algorithm 1 in the paper. Returns:automatically generated

#### create public static [AffineFeature](http://docs.google.com/org/opencv/features2d/AffineFeature.html) create([Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html) backend, int maxTilt, int minTilt, float tiltStep, float rotateStepBase)Parameters:backend - The detector/extractor you want to use as backend.maxTilt - The highest power index of tilt factor. 5 is used in the paper as tilt sampling range n.minTilt - The lowest power index of tilt factor. 0 is used in the paper.tiltStep - Tilt sampling step \(\delta\_t\) in Algorithm 1 in the paper.rotateStepBase - Rotation sampling step factor b in Algorithm 1 in the paper. 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

#### getViewParams public void getViewParams([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) tilts, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) rolls)

#### setViewParams public void setViewParams([MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) tilts, [MatOfFloat](http://docs.google.com/org/opencv/core/MatOfFloat.html) rolls)

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