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
* [Next Class](http://docs.google.com/org/opencv/core/Core.html)
* [Frames](http://docs.google.com/index.html?org/opencv/core/Algorithm.html)
* [No Frames](http://docs.google.com/Algorithm.html)
* [All Classes](http://docs.google.com/allclasses-noframe.html)
* Summary:
* Nested |
* Field |
* Constr |
* [Method](#3znysh7)
* Detail:
* Field |
* Constr |
* [Method](#tyjcwt)

org.opencv.core

## Class Algorithm

* java.lang.Object
  + org.opencv.core.Algorithm
* Direct Known Subclasses: [AlignExposures](http://docs.google.com/org/opencv/photo/AlignExposures.html), [BackgroundSubtractor](http://docs.google.com/org/opencv/video/BackgroundSubtractor.html), [BaseCascadeClassifier](http://docs.google.com/org/opencv/objdetect/BaseCascadeClassifier.html), [CalibrateCRF](http://docs.google.com/org/opencv/photo/CalibrateCRF.html), [CLAHE](http://docs.google.com/org/opencv/imgproc/CLAHE.html), [DenseOpticalFlow](http://docs.google.com/org/opencv/video/DenseOpticalFlow.html), [DescriptorMatcher](http://docs.google.com/org/opencv/features2d/DescriptorMatcher.html), [Feature2D](http://docs.google.com/org/opencv/features2d/Feature2D.html), [GeneralizedHough](http://docs.google.com/org/opencv/imgproc/GeneralizedHough.html), [Layer](http://docs.google.com/org/opencv/dnn/Layer.html), [LineSegmentDetector](http://docs.google.com/org/opencv/imgproc/LineSegmentDetector.html), [MergeExposures](http://docs.google.com/org/opencv/photo/MergeExposures.html), [SparseOpticalFlow](http://docs.google.com/org/opencv/video/SparseOpticalFlow.html), [StatModel](http://docs.google.com/org/opencv/ml/StatModel.html), [StereoMatcher](http://docs.google.com/org/opencv/calib3d/StereoMatcher.html), [Tonemap](http://docs.google.com/org/opencv/photo/Tonemap.html)  
    
  public class Algorithm  
  extends java.lang.Object  
  This is a base class for all more or less complex algorithms in OpenCV especially for classes of algorithms, for which there can be multiple implementations. The examples are stereo correspondence (for which there are algorithms like block matching, semi-global block matching, graph-cut etc.), background subtraction (which can be done using mixture-of-gaussians models, codebook-based algorithm etc.), optical flow (block matching, Lucas-Kanade, Horn-Schunck etc.). Here is example of SimpleBlobDetector use in your application via Algorithm interface: SNIPPET: snippets/core\_various.cpp Algorithm

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/core/Algorithm.html#__fromPtr__(long))(long addr) |
| void | [**clear**](http://docs.google.com/org/opencv/core/Algorithm.html#clear())() Clears the algorithm state |
| boolean | [**empty**](http://docs.google.com/org/opencv/core/Algorithm.html#empty())() Returns true if the Algorithm is empty (e.g. |
| java.lang.String | [**getDefaultName**](http://docs.google.com/org/opencv/core/Algorithm.html#getDefaultName())() Returns the algorithm string identifier. |
| long | [**getNativeObjAddr**](http://docs.google.com/org/opencv/core/Algorithm.html#getNativeObjAddr())() |
| void | [**save**](http://docs.google.com/org/opencv/core/Algorithm.html#save(java.lang.String))(java.lang.String filename) Saves the algorithm to a file. |

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

### Method Detail

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

#### clear public void clear() Clears the algorithm state

#### empty public boolean empty() Returns true if the Algorithm is empty (e.g. in the very beginning or after unsuccessful readReturns:automatically generated

#### getDefaultName public java.lang.String 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.Returns:automatically generated

#### getNativeObjAddr public long getNativeObjAddr()

#### save public void save(java.lang.String filename) Saves the algorithm to a file. In order to make this method work, the derived class must implement Algorithm::write(FileStorage& fs).Parameters:filename - automatically generated

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