JavaScript is disabled on your browser.

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org.opencv.video

## Class SparseOpticalFlow

* java.lang.Object
  + [org.opencv.core.Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)
    - org.opencv.video.SparseOpticalFlow
* Direct Known Subclasses: [SparsePyrLKOpticalFlow](http://docs.google.com/org/opencv/video/SparsePyrLKOpticalFlow.html)  
    
  public class SparseOpticalFlow  
  extends [Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)  
  Base interface for sparse optical flow algorithms.

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [SparseOpticalFlow](http://docs.google.com/org/opencv/video/SparseOpticalFlow.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/video/SparseOpticalFlow.html#__fromPtr__(long))(long addr) |
| void | [**calc**](http://docs.google.com/org/opencv/video/SparseOpticalFlow.html#calc(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) prevImg, [Mat](http://docs.google.com/org/opencv/core/Mat.html) nextImg, [Mat](http://docs.google.com/org/opencv/core/Mat.html) prevPts, [Mat](http://docs.google.com/org/opencv/core/Mat.html) nextPts, [Mat](http://docs.google.com/org/opencv/core/Mat.html) status) Calculates a sparse optical flow. |
| void | [**calc**](http://docs.google.com/org/opencv/video/SparseOpticalFlow.html#calc(org.opencv.core.Mat,%20org.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) prevImg, [Mat](http://docs.google.com/org/opencv/core/Mat.html) nextImg, [Mat](http://docs.google.com/org/opencv/core/Mat.html) prevPts, [Mat](http://docs.google.com/org/opencv/core/Mat.html) nextPts, [Mat](http://docs.google.com/org/opencv/core/Mat.html) status, [Mat](http://docs.google.com/org/opencv/core/Mat.html) err) Calculates a sparse optical flow. |

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

#### calc public void calc([Mat](http://docs.google.com/org/opencv/core/Mat.html) prevImg, [Mat](http://docs.google.com/org/opencv/core/Mat.html) nextImg, [Mat](http://docs.google.com/org/opencv/core/Mat.html) prevPts, [Mat](http://docs.google.com/org/opencv/core/Mat.html) nextPts, [Mat](http://docs.google.com/org/opencv/core/Mat.html) status) Calculates a sparse optical flow.Parameters:prevImg - First input image.nextImg - Second input image of the same size and the same type as prevImg.prevPts - Vector of 2D points for which the flow needs to be found.nextPts - Output vector of 2D points containing the calculated new positions of input features in the second image.status - Output status vector. Each element of the vector is set to 1 if the flow for the corresponding features has been found. Otherwise, it is set to 0.

#### calc public void calc([Mat](http://docs.google.com/org/opencv/core/Mat.html) prevImg, [Mat](http://docs.google.com/org/opencv/core/Mat.html) nextImg, [Mat](http://docs.google.com/org/opencv/core/Mat.html) prevPts, [Mat](http://docs.google.com/org/opencv/core/Mat.html) nextPts, [Mat](http://docs.google.com/org/opencv/core/Mat.html) status, [Mat](http://docs.google.com/org/opencv/core/Mat.html) err) Calculates a sparse optical flow.Parameters:prevImg - First input image.nextImg - Second input image of the same size and the same type as prevImg.prevPts - Vector of 2D points for which the flow needs to be found.nextPts - Output vector of 2D points containing the calculated new positions of input features in the second image.status - Output status vector. Each element of the vector is set to 1 if the flow for the corresponding features has been found. Otherwise, it is set to 0.err - Optional output vector that contains error response for each point (inverse confidence).

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