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SUMMARY: NESTED | ENUM CONSTANTS | FIELD | METHOD DETAIL: ENUM CONSTANTS | FIELD | METHOD

com.leapcv

Enum LeapCVCamera.CameraSide

java.lang.Object java.lang.Enum<LeapCVCamera.CameraSide> com.leapcv.LeapCVCamera.CameraSide

All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable<LeapCVCamera.CameraSide>

Enclosing class:

LeapCVCamera

public static enum LeapCVCamera.CameraSide
extends java.lang.Enum<LeapCVCamera.CameraSide>

Enumeration of the camera sides o = left 1 = right

Enum Constant Summary

Enum Constants

Enum Constant and Description

LEFT

RIGHT

Field Summary

Fields

Modifier and Type Field and Description

private int side

Method Summary

All Methods Static Methods Instance Methods Concrete Methods

Modifier and Type Method and Description

int getSideId()

static LeapCVCamera.CameraSide valueOf(java.lang.String name)

Returns the enum constant of this type with the specified name.

static LeapCVCamera.CameraSide[] values()

Returns an array containing the constants of this enum type, in the order they are declared.

Methods inherited from class java.lang.Enum

clone, compareTo, equals, finalize, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

Methods inherited from class java.lang.Object

getClass, notify, notifyAll, wait, wait, wait

Enum Constant Detail

LEFT

public static final LeapCVCamera.CameraSide LEFT

RIGHT

public static final LeapCVCamera.CameraSide RIGHT

Field Detail

side

private int side

Method Detail

getSideId

public int getSideId()

valueOf

public static LeapCVCamera.CameraSide valueOf(java.lang.String name)

Returns the enum constant of this type with the specified name. The string must matchexactly an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)

Parameters:

name - the name of the enum constant to be returned.

Returns:

the enum constant with the specified name

Throws:

java.lang.IllegalArgumentException - if this enum type has no constant
with the specified name

java.lang.NullPointerException - if the argument is null

values

```
public static LeapCVCamera.CameraSide[] values()
```

Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows:

```
for (LeapCVCamera.CameraSide c : LeapCVCamera.CameraSide.values())
    System.out.println(c);
```

Returns:

an array containing the constants of this enum type, in the order they are declared

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.leapcv

Class LeapCVCamera

java.lang.Object com.leapcv.LeapCVCamera

public class LeapCVCamera
extends java.lang.Object

Class that stores information about the leap motion cameras

Nested Class Summary

Nested Classes

Modifier and Type Class and Description

static class LeapCVCamera.CameraSide

Enumeration of the camera sides o = left 1 = right

Field Summary

Fields

Modifier and Type	Field and Description
private LeapCVImage	currentImage
private org.opencv.core.Mat	distortionX
private org.opencv.core.Mat	distortionY
private LeapCVCamera.CameraSide	side

Constructor Summary

Constructors

Constructor and Description

LeapCVCamera(LeapCVCamera.CameraSide side)

Method Summary

All Methods Instance Met	hods Concrete Methods
Modifier and Type	Method and Description
LeapCVImage	<pre>getCurrentImage()</pre> Get the image within the current frame state
org.opencv.core.Mat	<pre>getDistortionX() Get the X distortion Mat for this camera for use with the OpenCV remap method</pre>
org.opencv.core.Mat	<pre>getDistortionY() Get the Y distortion Mat for this camera for use with the OpenCV remap method</pre>
org.opencv.core.Mat	<pre>getImageUndistorted()</pre> Get the undistorted image from this camera.
LeapCVCamera.CameraSide	getSide() Get the side of this camera
void	<pre>setCurrentImage(com.leapmotion.leap.Image image)</pre> Set the image in the current frame state
void	<pre>setDistortionX(org.opencv.core.Mat distortionX)</pre> Set the X distortionMat for this camera
void	<pre>setDistortionY(org.opencv.core.Mat distortionY) Set the Y distortion Mat for this camera</pre>
void	setSide(LeapCVCamera.CameraSide side) Set the side of this camera.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait, wait

Field Detail

currentlmage

private LeapCVImage currentImage

distortionX

private org.opencv.core.Mat distortionX

distortionY

private org.opencv.core.Mat distortionY

side

private LeapCVCamera.CameraSide side

Constructor Detail

LeapCVCamera

public LeapCVCamera(LeapCVCamera.CameraSide side)

Method Detail

getCurrentImage

public LeapCVImage getCurrentImage()

Get the image within the current frame state

Returns:

LeapCVImage

get Distortion X

public org.opencv.core.Mat getDistortionX()

Get the X distortion Mat for this camera for use with the OpenCV remap method

Returns:

Mat

getDistortionY

public org.opencv.core.Mat getDistortionY()

Get the Y distortion Mat for this camera for use with the OpenCV remap method

Returns:

getImageUndistorted

public org.opencv.core.Mat getImageUndistorted()

Get the undistorted image from this camera. distortionX and distortionY need to be set first. Makes use of the OpenCV Imgproc remap() method.

Returns:

Mat

getSide

```
public LeapCVCamera.CameraSide getSide()
```

Get the side of this camera

Returns:

LeapCVCamera.CameraSide

setCurrentImage

```
public void setCurrentImage(com.leapmotion.leap.Image image)
```

Set the image in the current frame state

Parameters:

image - Image to be set

setDistortionX

public void setDistortionX(org.opencv.core.Mat distortionX)

Set the X distortion Mat for this camera

Parameters:

distortionX - Distortion Mat for X

setDistortionY

public void setDistortionY(org.opencv.core.Mat distortionY)

Set the Y distortion Mat for this camera

Parameters:

distortionY - Distortion Mat for Y

setSide

public void setSide(LeapCVCamera.CameraSide side)

Set the side of this camera. Each camera already has a side set from the LeapSDK so make sure this gets set within LeapCV.

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PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.leapcv

Class LeapCVController

java.lang.Object com.leapcv.LeapCVController

public class LeapCVController
extends java.lang.Object

Class to be initialised to interface with the leap motion.

Field Summary

Fields

Fields		
Modifier and Type		Field and Description
private com.leapmotic	on.leap.ImageList	currentImages
private com.leapmotic	on.leap.Controller	leapController
private LeapCVCamera		leftCam
private LeapCVCamera		rightCam

Constructor Summary

Constructors

Constructor and Description

LeapCVController()

Constructor for LeapCVController

Method Summary

All Methods	Instance Methods	Concrete Methods	
Modifier and Tyլ	ре	Method and Description	
java.util.Li	ist <leapcvcamera></leapcvcamera>	<pre>getCameras() Get the LeapCVCamera LeapCVController</pre>	a objects from the
org.opencv.o	core.Mat	<pre>getLeftImage()</pre>	

	Get raw image from the left side camera
org.opencv.core.Mat	<pre>getLeftImageUndistorted()</pre> Get undistorted image from the left side camera
org.opencv.core.Mat	<pre>getRightImage() Get raw image from the right side camera</pre>
org.opencv.core.Mat	<pre>getRightImageUndistorted()</pre> Get undistorted image from the right side camera
private void	<pre>initDistortionMats() Initialize the leap motion controller distortion matrices for the left and right camera</pre>
private void	<pre>initLeap() Initialize leap controller and wait for the next valid frame to be received</pre>
void	nextValidFrame() Move the leap motion controller on to the next valid frame

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait, wait

Field Detail

currentlmages

private com.leapmotion.leap.ImageList currentImages

leapController

private com.leapmotion.leap.Controller leapController

leftCam

private LeapCVCamera leftCam

rightCam

private LeapCVCamera rightCam

Constructor Detail

LeapCVController

```
public LeapCVController()
```

Constructor for LeapCVController

Method Detail

getCameras

```
public java.util.List<LeapCVCamera> getCameras()
```

Get the LeapCVCamera objects from the LeapCVController

Returns:

List - containing LeapCVCamera

getLeftImage

```
public org.opencv.core.Mat getLeftImage()
```

Get raw image from the left side camera

Returns:

Mat

getLeftImageUndistorted

```
public org.opencv.core.Mat getLeftImageUndistorted()
```

Get undistorted image from the left side camera

Returns:

Mat

getRightImage

```
public org.opencv.core.Mat getRightImage()
```

Get raw image from the right side camera

Returns:

Mat

getRightImageUndistorted

public org.opencv.core.Mat getRightImageUndistorted()

Get undistorted image from the right side camera

Returns:

Mat

initDistortionMats

private void initDistortionMats()

Initialize the leap motion controller distortion matrices for the left and right camera

initLeap

private void initLeap()

Initialize leap controller and wait for the next valid frame to be received

nextValidFrame

public void nextValidFrame()

Move the leap motion controller on to the next valid frame

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com.leapcv

Class LeapCVImage

java.lang.Object com.leapmotion.leap.Interface com.leapmotion.leap.lmage com.leapcv.LeapCVImage

public class LeapCVImage extends com.leapmotion.leap.Image

Image class for leap motion and OpenCV types

Nested Class Summary

Nested classes/interfaces inherited from class com.leapmotion.leap.lmage

com.leapmotion.leap.Image.FormatType

Field Summary

Fields

Modifier and Type

Field and Description

private com.leapmotion.leap.Image imageAsLeap

private org.opencv.core.Mat imageAsMat

Fields inherited from class com.leapmotion.leap.Interface

swigCMemOwn

Constructor Summary

Constructors

Constructor and Description

LeapCVImage(com.leapmotion.leap.Image image)

Method Summary

All Methods Instance Methods	ods Concrete Methods
Modifier and Type	Method and Description
com.leapmotion.leap.Image	Get the image as a Image
org.opencv.core.Mat	<pre>getImageAsMat()</pre> Get the image as aMat
void	<pre>setImage(com.leapmotion.leap.Image image) Set the image</pre>
private void	<pre>setImageAsLeap(com.leapmotion.leap.Image imageAsLeap)</pre>
private void	<pre>setImageAsMat(org.opencv.core.Mat imageAsMat)</pre>

Methods inherited from class com.leapmotion.leap.lmage

bytesPerPixel, data, data, delete, distortion, distortion, distortionHeight, distortionWidth, equals, finalize, format, getCPtr, height, id, invalid, isValid, rayOffsetX, rayOffsetY, rayScaleX, rayScaleY, rectify, sequenceId, toString, warp, width

Methods inherited from class com.leapmotion.leap.Interface

getCPtr

Methods inherited from class java.lang.Object

clone, equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

Field Detail

imageAsLeap

private com.leapmotion.leap.Image imageAsLeap

imageAsMat

private org.opencv.core.Mat imageAsMat

Constructor Detail

LeapCVImage

public LeapCVImage(com.leapmotion.leap.Image image)

Method Detail

getImageAsLeap

public com.leapmotion.leap.Image getImageAsLeap()

Get the image as a Image

Returns:

Image

getImageAsMat

public org.opencv.core.Mat getImageAsMat()

Get the image as a Mat

Returns:

Mat

setImage

public void setImage(com.leapmotion.leap.Image image)

Set the image

Parameters:

image - Image

setImageAsLeap

private void setImageAsLeap(com.leapmotion.leap.Image imageAsLeap)

setImageAsMat

private void setImageAsMat(org.opencv.core.Mat imageAsMat)

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com.leapc\

Class LeapCVImageUtils

java.lang.Object com.leapcv.utils.LeapCVImageUtils

public class LeapCVImageUtils
extends java.lang.Object

Field Summary

Fields

Modifier and Type	Field and Description
static int	IMAGE_HEIGHT
static int	IMAGE_WIDTH
static java.lang.String	LEFT_IMAGE_KEY
static java.lang.String	RIGHT_IMAGE_KEY
static java.lang.String	X_MAT_KEY
static java.lang.String	Y_MAT_KEY

Constructor Summary

Constructors

Constructor and Description

Methods inherited from class java.lang.Object

LeapCVImageUtils()

Method Summary

All Methods Static Methods Concrete M	ethods
Modifier and Type	Method and Description
static org.opencv.core.Mat	<pre>convertToMat(com.leapmotion.leap.Image image) Convert a leap type Image to an OpenCVMat</pre>
static org.opencv.core.Mat	<pre>crop(org.opencv.core.Mat image, double percentageCrop) Crops even percentage from each side of an image</pre>
static org.opencv.core.Mat	<pre>denoise(org.opencv.core.Mat image, double denoisingFactor)</pre>
static org.opencv.core.Mat	<pre>gaussianBlur(org.opencv.core.Mat image)</pre>
static java.util.Map <java.lang.string< td=""><td>org.opencv.core.Mat> initDistortionMat(com.leapmotion.leap.Image image) Initialise the distortion matrices for use with OpenCVImgproc method.</td></java.lang.string<>	org.opencv.core.Mat> initDistortionMat(com.leapmotion.leap.Image image) Initialise the distortion matrices for use with OpenCVImgproc method.
static javafx.scene.image.Image	<pre>matToWritableImage(org.opencv.core.Mat image) Turn a Mat into a WritableImage, useful for displaying in JavaFX</pre>
static org.opencv.core.Mat	<pre>medianBlur(org.opencv.core.Mat image)</pre>
static java.awt.image.BufferedImage	<pre>toBufferedImage(com.leapmotion.leap.Image image) Turn a leap motion Image type into aBufferedImage</pre>
static javafx.scene.image.WritableIma	toWritableImage(java.awt.image.BufferedImage image) Turn a BufferedImage into a WritableImage, useful for displaying in JavaFX

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Field Detail

IMAGE WIDTH

public static final int IMAGE_WIDTH

See Also:

Constant Field Values

IMAGE_HEIGHT

public static final int IMAGE_HEIGHT

See Also:

Constant Field Values

LEFT_IMAGE_KEY

public static final java.lang.String LEFT_IMAGE_KEY

See Also:

Constant Field Values

RIGHT_IMAGE_KEY

public static final java.lang.String RIGHT_IMAGE_KEY

See Also:

Constant Field Values

X_MAT_KEY

public static final java.lang.String X_MAT_KEY

See Also:

Constant Field Values

Y_MAT_KEY

public static final java.lang.String Y_MAT_KEY

See Also:

Constant Field Values

Constructor Detail

LeapCVImageUtils

public LeapCVImageUtils()

Method Detail

convertToMat

public static org.opencv.core.Mat convertToMat(com.leapmotion.leap.Image image)

Convert a leap type Image to an OpenCVMat

Parameters:

image - of type Image

Returns:

Mat of original image,

initDistortionMat

public static java.util.Map<java.lang.String,org.opencv.core.Mat> initDistortionMat(com.leapmotion.leap.Image image)

Initialise the distortion matrices for use with OpenCVImgproc method.

Parameters:

image - The Image which contains the distortion data

Returns:

Map<String, Mat> of X and Y matrix.

toBufferedImage

public static java.awt.image.BufferedImage toBufferedImage(com.leapmotion.leap.Image image)

Turn a leap motion Image type into a BufferedImage

Parameters:

image - - Image

Returns:

BufferedImage

toWritableImage

public static javafx.scene.image.WritableImage toWritableImage(java.awt.image.BufferedImage image)

Turn a BufferedImage into a WritableImage, useful for displaying in JavaFX

Parameters:

image - - BufferedImage

Returns:

WritableImage

matToWritableImage

public static javafx.scene.image.Image matToWritableImage(org.opencv.core.Mat image)

Turn a Mat into a WritableImage, useful for displaying in JavaFX

Parameters:

image - - Mat

Returns:

WritableImage

gaussianBlur

public static org.opencv.core.Mat gaussianBlur(org.opencv.core.Mat image)

medianBlur

public static org.opencv.core.Mat medianBlur(org.opencv.core.Mat image)

crop

Crops even percentage from each side of an image

Parameters

image - The Image to be cropped.

percentageCrop - The percentage to which the image passed in should be cropped. Between 0 and 1.

Returns:

Mat

denoise

PACKAGE CLASS TREE DEPRECATED INDEX HELP

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.leapcv

Class LeapCVObjectDetector

java.lang.Object com.leapcv.LeapCVObjectDetector

public class LeapCVObjectDetector
extends java.lang.Object

Class for carrying out object detection

Field Summary

Fields

Modifier and Type	Field and Description
<pre>private org.opencv.features2d.DescriptorExtractor</pre>	extractor
private org.opencv.features2d.FeatureDetector	featureDetector
private org.opencv.core.Mat	matchedImage
private org.opencv.features2d.DescriptorMatcher	matcher

ALL CLASSES

Constructor Summary

Constructors

Constructor and Description

LeapCVObjectDetector()

Method Summary

All Methods Ins	stance Methods Co	oncrete Methods
Modifier and Type		Method and Description
org.opencv.core	.Mat	<pre>getFeatureDescriptors(org.opencv.core.Mat image) Get image feature descriptors</pre>
org.opencv.core	.MatOfKeyPoint	<pre>getFeatures(org.opencv.core.Mat image) Get image key points</pre>
org.opencv.core	.Mat	<pre>match(org.opencv.core.Mat left, org.opencv.core.Mat right) Match image features</pre>
private org.ope	ncv.core.MatOfDMat	removeOutliers(org.opencv.core.MatOfDMatch matches Remove outliers from matched features

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait,
wait, wait

Field Detail

extractor

private org.opencv.features2d.DescriptorExtractor extractor

featureDetector

private org.opencv.features2d.FeatureDetector featureDetector

matchedImage

private org.opencv.core.Mat matchedImage

matcher

private org.opencv.features2d.DescriptorMatcher matcher

Constructor Detail

LeapCVObjectDetector

public LeapCVObjectDetector()

Method Detail

getFeatureDescriptors

public org.opencv.core.Mat getFeatureDescriptors(org.opencv.core.Mat image)

Get image feature descriptors

Parameters:

image -

Returns:

getFeatures

public org.opencv.core.MatOfKeyPoint getFeatures(org.opencv.core.Mat image)

Get image key points
Parameters:
image -
Returns:
MatOfKeyPoint
match
public org.opencv.core.Mat match(org.opencv.core.Mat left,
org.opencv.core.Mat right)
Match image features
Parameters:
left -
right -
Returns:
removeOutliers
private org.opencv.core.MatOfDMatch removeOutliers(org.opencv.core.MatOfDMatch matches
Remove outliers from matched features
Parameters:
matches -
Returns:

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

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ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.leapcv

Class LeapCVStereoCalib

java.lang.Object com.leapcv.LeapCVStereoCalibrator

public class LeapCVStereoCalib
extends java.lang.Object

Constructor Summary

Constructors

Constructor and Description

LeapCVStereoCalib(LeapCVCamera left, LeapCVCamera right)

Method Summary

Modifier and Type

All Methods	Instance Methods	Concrete Methods

void calibrateLeapCameras()

org.opencv.core.Mat create3dChessboardCorners(org.opencv.core.Size boardSize,

float squareSize)

Method and Description

void findChessboardCorners()

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait,
wait, wait

Constructor Detail

LeapCVStereoCalib

Method Detail

findChessboardCorners

public void findChessboardCorners()

create3dChessboardCorners

calibrateLeapCameras

public void calibrateLeapCameras()

PACKAGE CLASS TREE DEPRECATED INDEX HELP

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PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.leapcv

Class LeapCVStereoCalibrator

java.lang.Object com.leapcv.LeapCVCalibrationUtils

public class LeapCVStereoCalibrator
extends java.lang.Object

Field Summary

Fields

Modifier and Type	Field and Description
<pre>private java.util.List<leapcvcamera></leapcvcamera></pre>	cameras
private java.util.Map <java.lang.integer,java.util.list<org.opencv.co< td=""><td>ore.Mat>> corners</td></java.lang.integer,java.util.list<org.opencv.co<>	ore.Mat>> corners
<pre>private java.util.Map<java.lang.integer,java.util.list<org.opencv.c< pre=""></java.lang.integer,java.util.list<org.opencv.c<></pre>	ore.Mat>> imagePoints
<pre>private java.util.List<org.opencv.core.mat></org.opencv.core.mat></pre>	objectPoints
private org.opencv.core.Size	patternSize

Constructor Summary

Constructors

Constructor and Description

LeapCVStereoCalibrator(LeapCVCamera left, LeapCVCamera right)

Method Summary

All Methods	Instance Met	thods Concrete Meth	nods
Modifier and Ty	ре Ме	ethod and Description	
void	Ca	alibrateLeapCameras	()
org.opencv.o		reate3dChessboardCo loat squareSize)	<pre>rners(org.opencv.core.Size boardSize,</pre>
void	f	indChessboardCorner	s()

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,
wait

Field Detail

cameras

private java.util.List<LeapCVCamera> cameras

corners

private java.util.Map<java.lang.Integer,java.util.List<org.opencv.core.Mat>> corners

imagePoints

private java.util.Map<java.lang.Integer,java.util.List<org.opencv.core.Mat>> imagePoints

objectPoints

private java.util.List<org.opencv.core.Mat> objectPoints

patternSize

private org.opencv.core.Size patternSize

Constructor Detail

LeapCVStereoCalibrator

Method Detail

calibrateLeapCameras

public void calibrateLeapCameras()

create3dChessboardCorners

findChessboardCorners

public void findChessboardCorners()

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PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.leapcv

Class LeapCVStereoUtils

java.lang.Object com.leapcv.utils.LeapCVStereoUtils

public class LeapCVStereoUtils extends java.lang.Object

Constructor Summary

Constructors

Constructor and Description

LeapCVStereoUtils()

Method Summary

All Methods Instance	e Methods Concrete Methods
Modifier and Type	Method and Description
double	<pre>getCycle()</pre>
org.opencv.core.Mat	<pre>getDisparityMap(org.opencv.core.Mat left, org.opencv.core.Mat right)</pre>
org.opencv.core.Mat	<pre>getDisparityMap2(org.opencv.core.Mat left, org.opencv.core.Mat right)</pre>
org.opencv.core.Mat	<pre>getDisparityMap3(org.opencv.core.Mat left, org.opencv.core.Mat right)</pre>
double	<pre>getFi()</pre>
double	getLambda()
double	<pre>getLevels()</pre>
double	<pre>getMaxDisp()</pre>
double	<pre>getMinDisp()</pre>
org.opencv.core.Mat	<pre>getPointCloud(org.opencv.core.Mat disparityMap)</pre>
double	<pre>getPolyN()</pre>
double	<pre>getPolySigma()</pre>

double	<pre>getPyrScale()</pre>
void	<pre>savePointCloud(org.opencv.core.Mat pcl, java.io.File destination)</pre>
void	setCycle(double cycle)
void	<pre>setFi(double fi)</pre>
void	setLambda (double lambda)
void	<pre>setLevels(double levels)</pre>
void	<pre>setMaxDisp(double maxDisp)</pre>
void	<pre>setMinDisp(double minDisp)</pre>
void	<pre>setPolyN(double polyN)</pre>
void	<pre>setPolySigma(double polySigma)</pre>
void	setPyrScale(double pyrScale)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait

Constructor Detail

LeapCVStereoUtils

public LeapCVStereoUtils()

Method Detail

getCycle

public double getCycle()

${\bf setCycle}$

public void setCycle(double cycle)

getLevels

public double getLevels()

setLevels public void setLevels(double levels) getPyrScale public double getPyrScale() setPyrScale public void setPyrScale(double pyrScale) getPolyN public double getPolyN() setPolyN public void setPolyN(double polyN) getPolySigma public double getPolySigma() setPolySigma public void setPolySigma(double polySigma) getFi public double getFi() setFi public void setFi(double fi) getLambda public double getLambda()

setLambda

public void setLambda(double lambda)

getMinDisp

public double getMinDisp()

setMinDisp

public void setMinDisp(double minDisp)

getMaxDisp

public double getMaxDisp()

setMaxDisp

public void setMaxDisp(double maxDisp)

getDisparityMap

getDisparityMap2

getDisparityMap3

getPointCloud

public org.opencv.core.Mat getPointCloud(org.opencv.core.Mat disparityMap)

savePointCloud

PACKAGE CLASS TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

com.leapcv

Class Main

java.lang.Object com.leapcv.Main

public class Main
extends java.lang.Object

Field Summary

Fields

Modifier and Type Field and Description

private static LeapCVImageUtils util

Constructor Summary

Constructors

Constructor and Description

Main()

Method Summary

All Methods Static Methods Concrete Methods

Modifier and Type Method and Description

static void main(java.lang.String[] args)

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString,
wait, wait, wait

Field Detail

util

private static LeapCVImageUtils util

Constructor Detail

Main

public Main()

Method Detail

main

Throws:

java.io.InvalidObjectException

OVERVIEW PACKAGE CLASS TREE INDEX HELP

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com.leapcv

Classes

LeapCVCamera LeapCVController LeapCVImage LeapCVObjectDetector

Enums

LeapCVCamera.CameraSide

Package com.leapcv

Class Summary	
Class	Description
LeapCVCamera	Class that stores information about the leap motion cameras
LeapCVController	Class to be initialised to interface with the leap motion.
LeapCVImage	Image class for leap motion and OpenCV types
LeapCVObjectDetector	Class for carrying out object detection

Enum Summary

Enum	Description
LeapCVCamera.CameraSide	Enumeration of the camera sides o = left 1 = right

OVERVIEW PACKAGE CLASS	TREE INDEX HELP	
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FRAMES NO FRAMES

ALL CLASSES

Hierarchy For Package com.leapcv

Package Hierarchies:

All Packages

Class Hierarchy

- o java.lang.Object
 - o com.leapmotion.leap.Interface
 - o com.leapmotion.leap.lmage
 - com.leapcv.LeapCVImage
 - com.leapcv.LeapCVCamera
 - com.leapcv.LeapCVController
 - com.leapcv.LeapCVObjectDetector

Enum Hierarchy

- o java.lang.Object
 - java.lang.Enum<E> (implements java.lang.Comparable<T>, java.io.Serializable)
 - com.leapcv.LeapCVCamera.CameraSide

