# pyFloribotVision Documentation

Release 0.1

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# **CONTENTS**

1	pyFloribotVision	1
	1.1 Project-Page	
	1.2 General	
	1.3 Advance notice	1
2	Contents 2.1 pyfloribotvision Package	3
3	Indices and tables	23
Рy	ython Module Index	25
In	dex	27

# **PYFLORIBOTVISION**

## 1.1 Project-Page

The GitHub project page is located at: http://acuda.github.io/pyFloribotVision/

### 1.2 General

This student research project is designed to be a part of the FloribotProject (http://floribot.de/). Admittedly the stand-alone ability should be given.

The main goal is an high-grade configurable vision system. The vision process is described through configuration files whose sections are mapped to modules/plugins where the functionality is implied.

## 1.3 Advance notice

This project is in an early state. It's not recommended to use it due to the possibility of drastic changes. Furthermore there is no documentation of the project until now.

## **CONTENTS**

## 2.1 pyfloribotvision Package

### 2.1.1 pyfloribotvision Package

### 2.1.2 PyFloribotVision Module

class pyfloribotvision.PyFloribotVision.PyFloribotVision (configFile, loggingConfig, relativePath=True) Bases: object

Application-Startup handling Startup-Parameters

\_\_\_init\_\_\_(configFile, loggingConfig, relativePath=True) Object initialization

#### **Parameters**

- configFile path to the plugin config
- loggingConfig path to the logging config
- relativePath if given paths not relative this should be set to False (default True)

#### checkConfigExist()

checks if config files are exists and readable

#### executeApplicationContext()

execute configured behavior (invoke plugin methods)

#### initApplicationContext (pluginprefix)

initializes the application context

Parameters pluginprefix – plugins should be relative under ./plugins if class invoked trough a startup-script or another application, the prefix have to point into the package where the plugin-package could be find

pyfloribotvision.PyFloribotVision.main(name, argv)

Startup entry point, parsing commandline parameter

#### **Parameters**

- name Name of the script which was executed
- argv the list of command line arguments passed to the Python script

### 2.1.3 Subpackages

#### controller Package

controller Package

ConfigController Module

Simple Wrapper for the ConfigParser. Loads the Configuration-File and Convert it's Data into a Dictionary Structure. Each Section becomes a Key for the tob-level dict and serves the Option Values in an concatenated-dict saved as section-value

\_\_\_init\_\_\_(configFileName)

Load the rawConfig from Config-File with the ConfigParser and convert the rawConfig into a dict structure

**Parameters configFileName** (*str*) – Path to the Configuration-File

convertRawConfigToDict (rawConfig=None)

Converts the rawConfig into a dict structure and returns them

Parameters rawConfig - rawConfig from ConfigParser, if None the previously

loaded configuration will be converted (default None)

**Returns** converted configuration with sections on top level

Return type dict

getConfig()

simple getter for the converted configuration

Returns dictionary or None if no configuration was loaded

Return type dict

getOption (sectionname, optionname)

returns the value from the option which belongs to the given sectionname

#### **Parameters**

- **sectionname** (*str*) name of the section
- **optionname** (*str*) name of the option which value will be returned

Return type str

getSection (sectionname)

simple getter for a section (sub-dict) from the configuration (top-dict)

**Parameters sectionname** (*str*) – name of the section which will be returned

Returns sub-dictionary or None if no section found

Return type dict

PluginController Module

class pyfloribotvision.controller.PluginController.PluginController(pluginprefix)
Bases: object

The PluginController handles the loading and finding of the Plugins

```
___init___(pluginprefix)
```

Initializes the PluginController and load its Plugins

**Parameters pluginprefix** (str) – the package-path where the plugin-package can be found

#### loadPluginClass(item)

Loads a PluginClass by relativ path and returns it if found, otherwise None Due to conventions, the name of the PluginClass must be the same as the FileName containing the class.

**Parameters item** (*str*) – the Plugin to search for str of the format according to a relative import in the plugin package. e.g.: 'opency.cvDrawContours'

**Returns** the class of the loaded plugin or None if an error occurred

```
dto Package
dto Package
PluginDTO Module
class pyfloribotvision.dto.PluginDTO.PluginDTO
    Bases: object
    Plugin-Data-Object for compact access to all Plugin - no logic
    ___init___()
guicontrol Package
guicontrol Package
Subpackages
qt4 Package
qt4 Package
Subpackages
ui Package
ui Package
BaseParameterClasses Module
class pyfloribotvision.guicontrol.gt4.ui.BaseParameterClasses.ValueCallback
    Bases: object
    createCallbackListIfNotExist()
    doNotify(value)
    registerNotify(fnc)
class pyfloribotvision.quicontrol.qt4.ui.BaseParameterClasses.ValueUpdate
    Bases: object
    updateValue (value, dstFnc, convertFnc, preConvertFnc=None, postConvertFnc=None,
```

\*\*kwargs)

```
BoolParameter Module
class pyfloribotvision.guicontrol.qt4.ui.BoolParameter.BoolParameter
        Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_BoolParameter.Ui_Bool
        pyfloribotvision.guicontrol.gt4.ui.BaseParameterClasses.ValueCallback
          __init___()
         checkboxChanged(value)
ConfigControl Module
class pyfloribotvision.guicontrol.qt4.ui.ConfigControl.ConfigControl
        Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_ConfigControl.Ui_Conf
         ___init___()
FloatParameter Module
class pyfloribotvision.quicontrol.qt4.ui.FloatParameter.FloatParameter
         Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_IntType.Ui_IntType,
        pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueUpdate,
        pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueCallback
          __init___()
         lineEditChanged(value)
         scaleValue(value, scaleFactor=1)
         sliderChanged(value)
ImageParameter Module
class pyfloribotvision.guicontrol.qt4.ui.ImageParameter.ImageParameter(**kwargs)
        Bases: PyQt4.QtGui.QWidget,pyfloribotvision.quicontrol.qt4.ui.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_ImageParameter.Ui_I
         ___init___(**kwargs)
         closeImage()
         convertImage()
        toggleShowImage()
         updateImage()
IntListElementParameter Module
class pyfloribotvision.quicontrol.qt4.ui.IntListElementParameter.IntListElementParameter
         Bases: PyQt4.QtGui.QWidget,pyfloribotvision.guicontrol.qt4.ui.Ui_IntListElement.Ui_Int
        pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueUpdate,
        pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueCallback
         ___init___()
         lineEditChanged(value)
         sliderChanged(value)
IntListParameter Module
class pyfloribotvision.guicontrol.qt4.ui.IntListParameter.IntListParameter
         Bases: PyQt4.QtGui.QWidget,pyfloribotvision.guicontrol.qt4.ui.Ui_IntListParameter.Ui_I
         pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueUpdate,
        pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueCallback
```

```
___init___()
    setContent (valueList)
    widgetValueChanged(caller, value)
IntNestedListParameter Module
class pyfloribotvision.guicontrol.qt4.ui.IntNestedListParameter.IntNestedListParameter
    Bases: PyQt4.QtGui.QWidget, pyfloribotvision.quicontrol.qt4.ui.Ui_IntListParameter.Ui_I
    pyfloribotvision.quicontrol.qt4.ui.BaseParameterClasses.ValueUpdate,
    pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueCallback
    ___init___()
    setBaseContent(valueList)
    widgetValueChanged(caller, value)
IntParameter Module
class pyfloribotvision.quicontrol.qt4.ui.IntParameter.IntParameter
    Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_IntType.Ui_IntType,
    pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueUpdate,
    pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueCallback
    ___init___()
    lineEditChanged(value)
    sliderChanged(value)
MainWindow Module
class pyfloribotvision.guicontrol.qt4.ui.MainWindow.MainWindow
    Bases: PyQt4.QtGui.QMainWindow,pyfloribotvision.guicontrol.qt4.ui.Ui_MainWindow.Ui_Mai
    ___init___()
    cleanParameterBase()
    handleBoolType (parameter)
    handleFloatType (parameter)
    handleImageType (parameter)
    handleIntListType (parameter)
    handleIntNestedListType (parameter)
    handleIntType (parameter)
    handleName (parameter)
    handleStringType (parameter)
    initTypeHandleDict()
    itemClicked(item)
    loadList()
    widgetValueChanged(caller, value)
```

```
ParameterBase Module
class pyfloribotvision.guicontrol.qt4.ui.ParameterBase.ParameterBase(**kwargs)
           Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_ParameterBase.Ui_Para
           ___init___(**kwargs)
PluginList Module
class pyfloribotvision.guicontrol.qt4.ui.PluginList.PluginList
           Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_PluginList.Ui_PluginI
            ___init___()
StringParameter Module
class pyfloribotvision.guicontrol.qt4.ui.StringParameter.StringParameter
            Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_StringParameter.Ui_St
           pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses.ValueCallback
            ___init___()
            lineEditChanged(value)
Ui BoolParameter Module
class pyfloribotvision.guicontrol.qt4.ui.Ui_BoolParameter.Ui_BoolParameter
           Bases: object
           retranslateUi (BoolParameter)
            setupUi (BoolParameter)
Ui_ConfigControl Module
{\bf class} \; {\tt pyfloribotvision.guicontrol.qt4.ui.Ui\_ConfigControl. \bf Ui\_ConfigControl. \bf ConfigControl. \bf
           Bases: object
            retranslateUi(ConfigControl)
            setupUi (ConfigControl)
Ui_ImageParameter Module
class pyfloribotvision.guicontrol.qt4.ui.Ui_ImageParameter.Ui_ImageParameter
           Bases: object
           retranslateUi (ImageParameter)
            setupUi (ImageParameter)
Ui_IntListElement Module
class pyfloribotvision.guicontrol.qt4.ui.Ui_IntListElement.Ui_IntListElement
           Bases: object
           retranslateUi (IntListElement)
            setupUi (IntListElement)
```

```
Ui_IntListParameter Module
class pyfloribotvision.guicontrol.qt4.ui.Ui_IntListParameter.Ui_IntListParameter
    Bases: object
    retranslateUi (IntListParameter)
    setupUi (IntListParameter)
Ui_IntType Module
class pyfloribotvision.quicontrol.qt4.ui.Ui_IntType.Ui_IntType
    Bases: object
    retranslateUi(IntType)
    setupUi (IntType)
Ui_MainWindow Module
class pyfloribotvision.guicontrol.qt4.ui.Ui_MainWindow.Ui_MainWindow
    Bases: object
    retranslateUi (MainWindow)
    setupUi (MainWindow)
Ui ParameterBase Module
class pyfloribotvision.guicontrol.qt4.ui.Ui_ParameterBase.Ui_ParameterBase
    Bases: object
    retranslateUi (ParameterBase)
    setupUi (ParameterBase)
Ui_PluginList Module
class pyfloribotvision.guicontrol.qt4.ui.Ui_PluginList.Ui_PluginList
    Bases: object
    retranslateUi(PluginList)
    setupUi (PluginList)
Ui_StringParameter Module
class pyfloribotvision.guicontrol.qt4.ui.Ui_StringParameter.Ui_StringParameter
    Bases: object
    retranslateUi (StringParameter)
    setupUi (StringParameter)
uiimpl Package
uiimpl Package
```

#### manager Package

#### manager Package

#### ContextManager Module

class pyfloribotvision.manager.ContextManager.ContextManager(contextName=None)
 Bases: object

Prepare Application-Context and give the ability to access the Context trough normal initialisation for a given Pseudo-Namespace. The ContextManager provides the Plugins-, Configuration- and DataLink-Controller as well as the ProcessManager.

```
___init___(contextName=None)
```

Initialize a new instance per given contextName. Every new init for a known contextName returns previously initialized instance for corresponding context.

**Parameters contextName** – specifies the context (default None)

#### executeContext()

Triggers the executePlugins Method from the ProcessManager

initContext (configFileName, loggingConfigFileName, pluginprefix)

Initializes the Controller, Manager and Logger for given configuration data.

#### **Parameters**

- configFileName Configuration-File for the ConfigController
- loggingConfigFileName Configuration-File for the Logger
- pluginprefix Prefix where the Plugin-Package can be found

#### ProcessManager Module

Bases: object

Manages the Process and is responsibly for the runtime behavior

\_\_init\_\_ (pluginController, configController)

Gets the 'GENERAL' section from the ConfigController and acquires and instantiate the Plugins specified by the 'pluginSequence' Option in the Configuration

#### **Parameters**

- pluginController Instance of the PluginController
- configController Instance of the ConfigController
- dataLinkController Instance of the DataLinkController

#### acquirePlugins()

Acquire the Plugins specified by the 'pluginSequence' Option in the Configuration given by the dict generalConfigSection or internal config if generalConfigSection is None. Furthermore returns a list of PluginDto for each loaded Plugin whose Name in the pluginSequence Option don't start with an exclamation mark

Parameters generalConfigSection – Config for 'GENERAL' section (default None)

attachToDependencyIOList (para, dstList)

configParameter = [<pyfloribotvision.types.StringListType.StringListType object at 0x3bfae10>, <pyfloribotvision
executePlugins (pluginDtoList=None)</pre>

```
instantiatePlugins (pluginDtoList=None)
         Instantiate the Plugins in the list of PluginDto's
             Parameters pluginDtoList – List of PluginDto's (default None)
     logicSectionName = 'GENERAL'
     registerDependency (pluginDtoList=None)
     triggerPluginMethods (methodName, pluginDtoList=None)
         Triggers the corresponding methods of the active Plugins in the pluginDtoList
             Parameters
                • methodName – Name of the Plugin-Method to trigger
                • pluginDtoList – List of PluginDto's (default None)
plugins Package
plugins Package
BasePlugin Module
class pyfloribotvision.plugins.BasePlugin(**kwargs)
     Bases: object
     ___init___(**kwargs)
     configParameter = []
     externalCall()
     loadOptions (obj=None)
     postCyclicCall()
     preCyclicCall()
     timeBypassActions()
Subpackages
bdv_labor Package
bdv_labor Package
CircleMarker Module
class pyfloribotvision.plugins.bdv_labor.CircleMarker.CircleMarker(**kwargs)
     Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     ___init___(**kwargs)
     configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x4b022d0>, <pyfloribotvision.types.
     externalCall()
     preCyclicCall()
```

```
Deconvolution Module
class pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvolution(**kwargs)
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
             init (**kwargs)
          blur\_edge(img, d=31)
           configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4b069d0>, <pyfloribotvision.types.NameType.NameType object at 0x4b069d0>, <pyfloribotvision.types.NameType.NameType object at 0x4b069d0>, <pyfloribotvision.types.NameType.NameType object at 0x4b069d0>, <pyfloribotvision.types.NameType.NameType object at 0x4b069d0>, <pyfloribotvision.types.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameTyp
          defocus kernel (d, sz=65)
          externalCall()
          preCyclicCall()
InvertImage Module
class pyfloribotvision.plugins.bdv_labor.InvertImage.InvertImage(**kwargs)
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x4c95790>, <pyfloribotvision.types.
           externalCall()
MSER Module
class pyfloribotvision.plugins.bdv_labor.MSER.MSER(**kwargs)
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x4d466d0>, <pyfloribotvision.types.
          externalCall()
          preCyclicCall()
WeightChanels Module
class pyfloribotvision.pluqins.bdv labor.WeightChanels.WeightChanels(**kwargs)
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x49b6910>, <pyfloribotvision.types.
          externalCall()
          preCyclicCall()
floribot Package
floribot Package
FilePickleSegmentOutput Module
class pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.FilePickleSegmentOutput(**
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
          ___init___(**kwargs)
           appendOutputDataToCache()
           configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x46f5750>, <pyfloribotvision.types.NameType.NameType.
           externalCall()
```

```
postCyclicCall()
           preCyclicCall()
           writeCacheToFile()
kinect Package
kinect Package
DirectKinectSource Module
class pyfloribotvision.plugins.kinect.DirectKinectSource.DirectKinectSource(**kwargs)
           Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.IntType.IntType object at 0x3c59350>, <pyfloribotvision.types.Image'
           externalCall()
opency Package
opency Package
ApplyColorMap Module
class pyfloribotvision.plugins.opencv.ApplyColorMap.ApplyColorMap(**kwargs)
           Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x33b16d0>, <pyfloribotvision.types.l
           externalCall()
           obligatoryConfigOptions = {'inputImageName': None, 'outputImageName': None, 'colorMapCode': None}
          preCyclicCall()
CVBitwiseAnd Module
class pyfloribotvision.plugins.opencv.CVBitwiseAnd.CVBitwiseAnd(**kwargs)
           Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x430f690>, <pyfloribotvision.types.ImageType object at 0x430f690>, floribotvision.types.ImageType object at 0x430f690>, floribotvision.types.Type object at 0x430f690>, floribotvision.type object at 0x430f690>, floribotvision.type object at 0x450f690>, floribotvision.type object at 0x450f690>, flo
           externalCall()
CVBitwiseOr Module
class pyfloribotvision.plugins.opencv.CVBitwiseOr.CVBitwiseOr (**kwargs)
           Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x3c59510>, <pyfloribotvision.types.
           externalCall()
```

```
CVContourConstraint Module
class pyfloribotvision.plugins.opencv.CVContourConstraint.CVContourConstraint(**kwargs)
                    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
                       init (**kwargs)
                     configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x33b1fd0>, <pyfloribotvision.types.NameType.NameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.name
                     externalCall()
                    preCyclicCall()
CVDrawCicles Module
class pyfloribotvision.plugins.opencv.CVDrawCicles.CVDrawCicles (**kwargs)
                     Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
                    if inputContourIndexListName is empty, then draw all contours
                      ___init___(**kwargs)
                     configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x33ba290>, <pyfloribotvision.types.
                     externalCall()
CVDrawContours Module
class pyfloribotvision.pluqins.opencv.CVDrawContours.CVDrawContours(**kwargs)
                    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
                    if inputContourIndexListName is empty, then draw all contours
                      ___init___(**kwargs)
                     configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x48ee290>, <pyfloribotvision.types.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.Name
                    drawText (image, text, xpos, ypos, scale=1, color=(225, 225, 225))
                    drawTextMarker (image, text, xpos, ypos, radian, line, color=(225, 225, 225))
                      externalCall()
CVFindContours Module
class pyfloribotvision.pluqins.opencv.CVFindContours.CVFindContours(**kwargs)
                     Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
                      ___init___(**kwargs)
                     configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4e48290>, <pyfloribotvision.types.NameType.NameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.name
                    externalCall()
                    preCyclicCall()
CVGaussBlur Module
class pyfloribotvision.pluqins.opencv.CVGaussBlur(**kwargs)
                    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
                    ___init___(**kwargs)
                      configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x4e489d0>, <pyfloribotvision.types.
                     externalCall()
```

```
CVInRange Module
class pyfloribotvision.plugins.opencv.CVInRange.CVInRange (**kwargs)
         Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           init (**kwargs)
         configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x4e88e10>, <pyfloribotvision.types.
          externalCall()
CVMorphologyEx Module
class pyfloribotvision.plugins.opencv.CVMorphologyEx.CVMorphologyEx(**kwargs)
         Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
          ___init___(**kwargs)
         configParameter = [<pyfloribotvision.types.StringType.StringType object at 0x4eabc10>, <pyfloribotvision.types.
         externalCall()
         preCyclicCall()
CVStructuringElement Module
class pyfloribotvision.plugins.opencv.CVStructuringElement.CVStructuringElement (**kwargs)
         Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
          ___init___(**kwargs)
          configParameter = [<pyfloribotvision.types.StringType.StringType object at 0x4eddf50>, <pyfloribotvision.types.
         externalCall()
         preCyclicCall()
CVTransformColor Module
class pyfloribotvision.pluqins.opencv.CVTransformColor.CVTransformColor(**kwargs)
         Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
          ___init___(**kwargs)
          configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x4f09b10>, <pyfloribotvision.types.
          externalCall()
         preCyclicCall()
CVValueList Module
class pyfloribotvision.plugins.opencv.CVValueList.CVValueList (**kwargs)
         Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
         ___init___(**kwargs)
         configParameter = [<pyfloribotvision.types.IntNestedListType.IntNestedListType object at 0x4ec0690>, <pyflorib
         externalCall()
Canny Module
class pyfloribotvision.plugins.opencv.Canny.Canny(**kwargs)
         Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
          ___init___(**kwargs)
          configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x4f51310>, <pyfloribotvision.types.ImageType object at 0x4f51310>, floribotvision.types.ImageType object object at 0x4f51310>, floribotvision.type object object
          externalCall()
```

```
CreateContourBinaryImage Module
class pyfloribotvision.plugins.opencv.CreateContourBinaryImage.CreateContourBinaryImage(**
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     init (**kwargs)
    configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4f09210>, <pyfloribotvision.types.NameType.NameType.
    externalCall()
DirectCVCamSource Module
class pyfloribotvision.plugins.opencv.DirectCVCamSource(**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
    ___init___(**kwargs)
    configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x4fc72d0>, <pyfloribotvision.types.]
    externalCall()
    initCam()
    preCyclicCall()
    timeBypassActions()
DirectCVImageSource Module
class pyfloribotvision.plugins.opencv.DirectCVImageSource.DirectCVImageSource(**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
    ___init___(**kwargs)
    configParameter = [<pyfloribotvision.types.StringType.StringType object at 0x3d749d0>, <pyfloribotvision.types.
    externalCall()
DirectVideoSource Module
class pyfloribotvision.plugins.opencv.DirectVideoSource(**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     ___init___(**kwargs)
    configParameter = [<pyfloribotvision.types.StringType.StringType object at 0x3c5a210>, <pyfloribotvision.types.
    externalCall()
    initVideo()
    preCyclicCall()
FileCVImageOutput Module
class pyfloribotvision.plugins.opencv.FileCVImageOutput (**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     __init___(**kwargs)
    configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3d2db10>, <pyfloribotvision.types.S
    externalCall()
```

```
FileVideoOutput Module
class pyfloribotvision.plugins.opencv.FileVideoOutput (**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     init (**kwargs)
    configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4c75ad0>, <pyfloribotvision.types.S
    externalCall()
    preCyclicCall()
HoughCircles Module
class pyfloribotvision.plugins.opencv.HoughCircles.HoughCircles(**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     ___init___(**kwargs)
    configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x43172d0>, <pyfloribotvision.types.
    externalCall()
HuMoments Module
class pyfloribotvision.plugins.opencv.HuMoments.HuMoments(**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     ___init___(**kwargs)
     configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4210210>, <pyfloribotvision.types.NameType.
    externalCall()
Merge Module
class pyfloribotvision.pluqins.opencv.Merge.Merge(**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     ___init___(**kwargs)
    configParameter = [<pyfloribotvision.types.ImageListType.ImageListType object at 0x4657c10>, <pyfloribotvisio
    externalCall()
Moments Module
class pyfloribotvision.pluqins.opencv.Moments.Moments(**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
    ___init___(**kwargs)
     configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x42a3950>, <pyfloribotvision.types.NameType.
    externalCall()
{\tt ScreenCVImageOutput}\ Module
class pyfloribotvision.plugins.opencv.ScreenCVImageOutput (**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     init (**kwargs)
    configParameter = [<pyfloribotvision.types.StringListType.StringListType object at 0x4329110>]
    externalCall()
```

```
Threshold Module
class pyfloribotvision.plugins.opencv.Threshold.Threshold(**kwargs)
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
            init (**kwargs)
           configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x3d74390>, <pyfloribotvision.types.
           externalCall()
Watershed Module
class pyfloribotvision.plugins.opencv.Watershed.Watershed (**kwargs)
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3e0d390>, <pyfloribotvision.types.NameType.NameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.name
           externalCall()
python Package
python Package
DataToStdout Module
class pyfloribotvision.plugins.python.DataToStdout (**kwargs)
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.StringListType.StringListType object at 0x42a3490>]
           externalCall()
DeltaTimePerFrame Module
class pyfloribotvision.plugins.python.DeltaTimePerFrame (**kwargs)
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
            __init___(**kwargs)
           configParameter = [<pyfloribotvision.types.BoolType.BoolType object at 0x4657750>, <pyfloribotvision.types.Int'
           externalCall()
          postCyclicCall()
          preCyclicCall()
          printTime (time)
Histogram Module
class pyfloribotvision.plugins.python.Histogram.Histogram(**kwargs)
          Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
           ___init___(**kwargs)
           configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x4b060d0>, <pyfloribotvision.types.
           externalCall()
```

```
NewImage Module
class pyfloribotvision.plugins.python.NewImage.NewImage(**kwargs)
    Bases: pyfloribotvision.plugins.BasePlugin.BasePlugin
     init (**kwargs)
    configParameter = [<pyfloribotvision.types.ImageType.ImageType object at 0x32b0f90>, <pyfloribotvision.types.
    externalCall()
ros Package
ros Package
types Package
types Package
BaseListType Module
class pyfloribotvision.types.BaseListType.BaseListType (name=None, **kwargs)
    Bases: pyfloribotvision.types.BaseType.BaseType
     ___init___(name=None, **kwargs)
    dataUpdateCallback (name, data)
    invokeCallbacks (data)
    setDataValue(key, value)
    value
BaseNestedListType Module
class pyfloribotvision.types.BaseNestedListType.BaseNestedListType (name=None,
                                                                          **kwargs)
    Bases: pyfloribotvision.types.BaseListType.BaseListType
    __init__ (name=None, **kwargs)
    value
BaseType Module
class pyfloribotvision.types.BaseType (name, **kwargs)
    Bases: object
     ___init___(name, **kwargs)
    checkConstraint (value)
    data
    dataUpdateCallback (name, data)
    getConvertedData(converter, *args)
    getConvertedValue (converter, *args)
    initLog()
     invokeCallbacks (data)
```

```
registerDataUpdate(callback)
    value
BoolType Module
class pyfloribotvision.types.BoolType (name=None, **kwargs)
    Bases: pyfloribotvision.types.BaseType.BaseType
    ___init___(name=None, **kwargs)
FloatType Module
class pyfloribotvision.types.FloatType.FloatType (name=None, **kwargs)
    Bases: pyfloribotvision.types.BaseType.BaseType
    __init__ (name=None, **kwargs)
ImageListType Module
class pyfloribotvision.types.ImageListType.ImageListType (name=None, **kwargs)
    Bases: pyfloribotvision.types.BaseListType.BaseListType
    ___init___(name=None, **kwargs)
ImageType Module
class pyfloribotvision.types.ImageType.ImageType (name, **kwargs)
    Bases: pyfloribotvision.types.BaseType.BaseType
    ___init___(name, **kwargs)
IntListType Module
class pyfloribotvision.types.IntListType.IntListType (name=None, **kwargs)
    Bases: pyfloribotvision.types.BaseListType.BaseListType
    ___init___(name=None, **kwargs)
IntNestedListType Module
class pyfloribotvision.types.IntNestedListType.IntNestedListType (name=None,
                                                                      **kwargs)
    Bases: pyfloribotvision.types.BaseNestedListType.BaseNestedListType
    __init__ (name=None, **kwargs)
IntType Module
class pyfloribotvision.types.IntType (name=None, **kwargs)
    Bases: pyfloribotvision.types.BaseType.BaseType
    ___init___(name=None, **kwargs)
```

#### NameListType Module

```
class pyfloribotvision.types.NameListType.NameListType (name=None, **kwargs)
    Bases: pyfloribotvision.types.BaseListType.BaseListType
    ___init___(name=None, **kwargs)
NameType Module
class pyfloribotvision.types.NameType.NameType (name, **kwargs)
    Bases: pyfloribotvision.types.StringType.StringType
    ___init___(name, **kwargs)
StringListType Module
class pyfloribotvision.types.StringListType.StringListType (name=None,
                                                               **kwargs)
    Bases: pyfloribotvision.types.BaseListType.BaseListType
    ___init___(name=None, **kwargs)
StringNestedListType Module
class pyfloribotvision.types.StringNestedListType.StringNestedListType (name=None,
    Bases: pyfloribotvision.types.BaseNestedListType.BaseNestedListType
    ___init___(name=None, value=None)
StringType Module
class pyfloribotvision.types.StringType.StringType (name, **kwargs)
    Bases: pyfloribotvision.types.BaseType.BaseType
    __init__(name, **kwargs)
```

CHAPTER THREE

# **INDICES AND TABLES**

- genindex
- modindex
- search

# **PYTHON MODULE INDEX**

```
pyfloribotvision.quicontrol.qt4.ui.Ui_IntListElem
pyfloribotvision, 3
                                       pyfloribotvision.guicontrol.qt4.ui.Ui_IntListPara
pyfloribotvision.controller,4
<code>pyfloribotvision.controller.ConfigController.^9</code>
                                       pyfloribotvision.guicontrol.qt4.ui.Ui_IntType,
pyfloribotvision.controller.PluginController, 9
                                       pyfloribotvision.guicontrol.qt4.ui.Ui_MainWindow,
pyfloribotvision.dto,5
                                       pyfloribotvision.guicontrol.qt4.ui.Ui_ParameterBa
pyfloribotvision.dto.PluginDTO,5
pyfloribotvision.guicontrol, 5
                                       pyfloribotvision.guicontrol.qt4.ui.Ui_PluginList,
pyfloribotvision.guicontrol.qt4,5
pyfloribotvision.guicontrol.qt4.ui,5
pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses,guicontrol.qt4.ui.Ui_StringParam
pyfloribotvision.guicontrol.qt4.ui.BoolPaflaneteqt,vision.guicontrol.qt4.uiimpl,
pyfloribotvision.guicontrol.qt4.ui.ConfAycontibat,vision.manager,10
                                       pyfloribotvision.manager.ContextManager,
pyfloribotvision.guicontrol.qt4.ui.FloatParameter,
                                       pyfloribotvision.manager.ProcessManager,
pyfloribotvision.guicontrol.qt4.ui.ImageParameter,
                                       pyfloribotvision.plugins, 11
pyfloribotvision.guicontrol.qt4.ui.IntIPIStE97eihentvisionetelugins.BasePlugin,
pyfloribotvision.guicontrol.qt4.ui.IntIPX prihatvision.plugins.bdv_labor,11
                                       pyfloribotvision.plugins.bdv_labor.CircleMarker,
pyfloribotvision.guicontrol.qt4.ui.IntNestedListParameter,
                                       pyfloribotvision.plugins.bdv_labor.Deconvolution,
pyfloribotvision.guicontrol.qt4.ui.IntParameter,
                                       pyfloribotvision.plugins.bdv_labor.InvertImage,
pyfloribotvision.guicontrol.qt4.ui.MainWindow, 12
                                       pyfloribotvision.plugins.bdv labor.MSER,
pyfloribotvision.guicontrol.qt4.ui.ParameterBase,
                                       pyfloribotvision.plugins.bdv_labor.WeightChanels,
pyfloribotvision.guicontrol.qt4.ui.PluginList, 12
                                       pyfloribotvision.plugins.floribot, 12
pyfloribotvision.guicontrol.qt4.ui.StriAyflarihetevision.plugins.floribot.FilePickleSegme
pyfloribotvision.guicontrol.qt4.ui.Ui_Boxiloribotvision.plugins.kinect,13
                                       pyfloribotvision.plugins.kinect.DirectKinectSourc
pyfloribotvision.guicontrol.qt4.ui.Ui_ConfigControl,
                                       pyfloribotvision.plugins.opencv, 13
pyfloribotvision.guicontrol.qt4.ui.Ui_Invagerabatevision.plugins.opencv.ApplyColorMap,
                                       pyfloribotvision.plugins.opencv.Canny,
```

```
pyfloribotvision.plugins.opencv.CreateQxyftboxribiotaxiysImargeplugins.python.NewImage,
pyfloribotvision.plugins.opencv.CVBitwipspefAlmoribotvision.plugins.ros,19
                                        pyfloribotvision.PyFloribotVision, 3
pyfloribotvision.plugins.opencv.CVBitwipspeDlporibotvision.types, 19
                                        pyfloribotvision.types.BaseListType,
pyfloribotvision.plugins.opencv.CVContourConst vaint,
                                        pyfloribotvision.types.BaseNestedListType,
pyfloribotvision.plugins.opencv.CVDrawCicles, 19
                                        pyfloribotvision.types.BaseType, 19
pyfloribotvision.plugins.opencv.CVDraw@xxxftboxxision.types.BoolType, 20
                                        pyfloribotvision.types.FloatType, 20
pyfloribotvision.plugins.opencv.CVFindqwynflourispotvision.types.ImageListType,
pyfloribotvision.plugins.opencv.CVGaussplfilmpribotvision.types.ImageType, 20
                                        pyfloribotvision.types.IntListType, 20
pyfloribotvision.plugins.opencv.CVInRammyefloribotvision.types.IntNestedListType,
pyfloribotvision.pluqins.opencv.CVMorphpylfobpyrEixbotvision.types.IntType, 20
                                        pyfloribotvision.types.NameListType,
pyfloribotvision.plugins.opencv.CVStructuring21ement,
                                        pyfloribotvision.types.NameType, 21
pyfloribotvision.plugins.opencv.CVTransfyofilmOroilloot,vision.types.StringListType,
pyfloribotvision.plugins.opencv.CVValuqJyifshoribotvision.types.StringNestedListType,
                                               21
pyfloribotvision.plugins.opencv.Direct@WCahrcScoibroteyision.types.StringType, 21
pyfloribotvision.plugins.opencv.DirectCVImageSource,
pyfloribotvision.plugins.opencv.DirectVideoSource,
pyfloribotvision.plugins.opencv.FileCVImageOutput,
pyfloribotvision.plugins.opencv.FileVideoOutput,
pyfloribotvision.plugins.opencv.HoughCircles,
pyfloribotvision.plugins.opencv.HuMoments,
      17
pyfloribotvision.plugins.opencv.Merge,
      17
pyfloribotvision.plugins.opencv.Moments,
pyfloribotvision.plugins.opencv.ScreenCVImageOutput,
pyfloribotvision.plugins.opencv.Threshold,
pyfloribotvision.plugins.opencv.Watershed,
pyfloribotvision.plugins.python, 18
pyfloribotvision.plugins.python.DataToStdout,
pyfloribotvision.plugins.python.DeltaTimePerFrame,
pyfloribotvision.plugins.python.Histogram,
```

# **INDEX**

Symbols	method), 8
	it() (pyfloribotvi-
sion.PyFloribotVision.PyFloribotVision	sion.guicontrol.qt4.ui.StringParameter.StringParameter
method), 3	method), 8
	it() (pyfloribotvi- sion.manager.ContextManager.ContextManager
sion.controller.ConfigController.ConfigController	method), 10
method), 4	it() (pyfloribotvi-
	sion.manager.ProcessManager
sion.controller.PluginController.PluginController method), 4	method), 10
init() (pyfloribotviin	it() (pyfloribotvi-
sion.dto.PluginDTO.PluginDTO method),	sion.plugins.BasePlugin.BasePlugin
5	method), 11
	it() (pyfloribotvi-
sion.guicontrol.qt4.ui.BoolParameter.BoolParameter	sion.plugins.bdv_labor.CircleMarker.CircleMarker
method), 6	method), 11
init() (pynonbotvi	it() (pyfloribotvi-
sion. guicontrol. qt 4.ui. Config Control. Config Control	sion.plugins.bdv_labor.Deconvolution.Deconvolution
method), 6	method), 12
init() (pynoniotvi	it() (pyfloribotvi- r sion.plugins.bdv_labor.InvertImage.InvertImage
sion.guicontrol.qt4.ui.FloatParameter.FloatParamete	method), 12
method), 6	it() (pyfloribotvi-
init() (pyfloribotvi <sup>1n</sup> sion.guicontrol.qt4.ui.ImageParameter.ImageParame	
method), 6	method), 12
init () (pyfloribotyiin	it() (pyfloribotvi-
sion.guicontrol.qt4.ui.IntListElementParameter.IntL	istElesient Plugins edv_labor. Weight Chanels. Weight Chanels
method), 6	method), 12
	it() (pyfloribotvi-
sion.guicontrol.qt4.ui.IntListParameter.IntListParam	eter sion.plugins.floribot.FilePickleSegmentOutput.FilePickleSegm
method), 6	method), 12
init() (pyfloribotvi <sup>1n</sup>	it_() (pyfloribotvi-
sion.guicontrol.qt4.ui.IntNestedListParameter.IntNe	sted Listraring skinect. Direct Kinect Source. Direct Kinect Source method), 13
method), 7	it() (pyfloribotvi-
imt() (pynonioetvi	sion.plugins.opencv.ApplyColorMap.ApplyColorMap
sion.guicontrol.qt4.ui.IntParameter.IntParameter method), 7	method), 13
init() (pyfloribotviin	it() (pyfloribotvi-
sion.guicontrol.qt4.ui.MainWindow.MainWindow	sion.plugins.opencv.CVBitwiseAnd.CVBitwiseAnd
method), 7	method), 13
init() (pyfloribotviin	it() (pyfloribotvi-
sion.guicontrol.qt4.ui.ParameterBase.ParameterBase	sion.plugins.opencv.CVBitwiseOr.CVBitwiseOr
method), 8	method), 13
	it() (pyfloribotvi-
sion.guicontrol.qt4.ui.PluginList.PluginList	sion.plugins.opencv.CVContourConstraint.CVContourConstra method), 14

init(		(pyfloribotvi-
		olugins.opencv.Moments.Moments
init(		(pyfloribotvi-
	sion.plugins.opencv.CVDrawContours.CVDrawContours sion.p	
init(		(pyfloribotvi-
	sion.plugins.opencv.CVFindContours.CVFindContours sion.p	
init(		(pyfloribotvi-
	sion.plugins.opencv.CVGaussBlur.CVGaussBlur sion.p	olugins.opency.Watershed.Watershed
init(		(pyfloribotvi-
	sion.plugins.opencv.CVInRange.CVInRange sion.p	olugins.python.DataToStdout.DataToStdout od), 18
init(	(pyfloribotviinit()	(pyfloribotvi-
	sion.plugins.opencv.CVMorphologyEx.CVMorphologyExion.pmethod), 15 method	olugins.python.DeltaTimePerFrame.DeltaTimePerFrame od), 18
init(	(pyfloribotviinit()	(pyfloribotvi-
	sion.plugins.opencv.CVStructuringElement.CVStructuringElement.method), 15 method	nlangins.python.Histogram.Histogram od), 18
init(		(pyfloribotvi-
	sion.plugins.opencv.CVTransformColor.CVTransformCokion.pmethod), 15 method	olugins.python.NewImage.NewImage od), 19
init(	(pyfloribotviinit()	(pyfloribotvi-
		ypes.BaseListType.BaseListType od), 19
init(		(pyfloribotvi-
		ypes.BaseNestedListType.BaseNestedListType od), 19
init(	(pyfloribotviinit() (pyfloribotvi-	floribotvision.types.BaseType.BaseType
	sion.plugins.opencv.CreateContourBinaryImage.CreateConteth	
init(		floribotvision.types.BoolType.BoolType od), 20
	sion.plugins.opencv.DirectCVCamSource.DirectCMfan(\$0(ppgf	
	method), 16 method	od), 20
init(		(pyfloribotvi-
		od), 20
init(		(pyfloribotvi-
	sion.plugins.opencv.DirectVideoSource.DirectVideoSourceion.t method), 16 20	ypes.ImageType method),
init(	•	(pyfloribotvi-
	sion.plugins.opencv.FileCVImageOutput.FileCVImageOutput.t method), 16 20	ypes.IntListType.IntListType method),
init(		(pyfloribotvi-
		ypes.IntNestedListType.IntNestedListType od), 20
init(		(pyfloribotvision.types.IntType.IntType od), 20
	method), 17init()	(pyfloribotvi-
init(		ypes.NameListType.NameListType
	· ·	od), 21
• •	method), 17init()	(pyfloribotvi-
init(		ypes.NameType.NameType method),
	sion.plugins.opencv.Merge.Merge method), 21	(my Banibata)
	17init()	(pyfloribotvi- ynes StringListTyne StringListTyne

method), 21	closeImage() (pyfloribotvi-
init() (pyfloribotvi-	sion.guicontrol.qt4.ui.ImageParameter.ImageParameter
sion.types.StringNestedListType.StringNestedl	· -
method), 21init() (pyfloribotvi-	ConfigControl (class in pyfloribotvision.guicontrol.qt4.ui.ConfigControl),
init() (pyfloribotvi- sion.types.StringType.StringType method),	sion.guicontroi.qt4.ui.ConfigControi),
21	ConfigController (class in pyfloribotvi-
٨	sion.controller.ConfigController), 4
A	configParameter (pyfloribotvi-
acquirePlugins() (pyfloribotvi-	sion.manager.ProcessManager.ProcessManager
sion.manager.ProcessManager.ProcessManage	r attribute), 10 configParameter (pyfloribotvi-
method), 10 appendOutputDataToCache() (pyfloribotvi-	sion.plugins.BasePlugin.BasePlugin at-
sion.plugins.floribot.FilePickleSegmentOutput	
method), 12	configParameter (pyfloribotvi-
ApplyColorMap (class in pyfloribotvi-	sion.plugins.bdv_labor.CircleMarker.CircleMarker
sion.plugins.opencv.ApplyColorMap),	attribute), 11
attachToDependencyIOList() (pyfloribotvi-	configParameter (pyfloribotvi- sion.plugins.bdv_labor.Deconvolution.Deconvolution
attachToDependencyIOList() (pyfloribotvi- sion.manager.ProcessManager.ProcessManager	
method), 10	configParameter (pyfloribotvi-
	sion.plugins.bdv_labor.InvertImage.InvertImage
В	attribute), 12
BaseListType (class in pyfloribotvi-	configParameter (pyfloribotvi-
sion.types.BaseListType), 19	sion.plugins.bdv_labor.MSER.MSER at- tribute), 12
BaseNestedListType (class in pyfloribotvision.types.BaseNestedListType), 19	configParameter (pyfloribotvi-
BasePlugin (class in pyfloribotvi-	sion.plugins.bdv_labor.WeightChanels.WeightChanels
sion.plugins.BasePlugin), 11	attribute), 12
sion.plugins.BasePlugin), 11 BaseType (class in pyfloribotvision.types.BaseType),	configParameter (pyfloribotvi-
BaseType (class in pyfloribotvision.types.BaseType), 19	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.FilePickleSeg
BaseType (class in pyfloribotvision.types.BaseType),  19 blur edge() (pyfloribotvi-	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19 blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvolu	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType), 19 blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvolution), 12	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType), 19 blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvolution), 12	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19 blur_edge() (pyfloribotvision.Deconvolution.Deconvolution.Deconvolution), 12 BoolParameter (class in pyfloribotvision.guicontrol.qt4.ui.BoolParameter),  6	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.Deconvolutio	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19 blur_edge() (pyfloribotvision.Deconvolution.Deconvolution.Deconvolution), 12 BoolParameter (class in pyfloribotvision.guicontrol.qt4.ui.BoolParameter),  6	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.Deconvolutio	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.Deconvolutio	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.Deconvolutio	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.Deconvolutio	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.Deconvolutio	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.Deconvolutio	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvol	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.Deconvolutio	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.Deconvolutio	configParameter (pyfloribotvi- sion.plugins.floribot.FilePickleSegmentOutput.F
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvol	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvol	configParameter (pyfloribotvi- sion.plugins.floribot.FilePickleSegmentOutput.F
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvol	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvol	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.FilePickleSegmentDitput.FilePickleSegmentDutput.FilePickleSegmentDitput.FilePickleSegmentDitput.FilePickleSegmentDutput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvol	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.FilePickleSegmentDitput.Fil
BaseType (class in pyfloribotvision.types.BaseType),  19  blur_edge() (pyfloribotvision.plugins.bdv_labor.Deconvolution.Deconvolution.Deconvolution.Deconvolution.Deconvolution.Deconvolution.Deconvolution.Deconvolution.Deconvolution.Deconvolution.Deconvolution.Deconvolution.Deconvolution.guicontrol.qt4.ui.BoolParameter),  6  BoolType (class in pyfloribotvision.types.BoolType), 20  C  Canny (class in pyfloribotvision.plugins.opencv.Canny), 15 checkboxChanged() (pyfloribotvision.guicontrol.qt4.ui.BoolParameter.BoolParamethod), 6 checkConfigExist() (pyfloribotvision.PyFloribotVision.PyFloribotVision.PyFloribotVision.plugins.Deconvolution.PyFloribotvision.types.BaseType.BaseType method), 19  CircleMarker (class in pyfloribotvision.plugins.bdv_labor.CircleMarker), 11	configParameter (pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.FilePickleSegmentDitput.Fil

```
attribute), 14
                                                                                       configParameter
                                                                                                                                                      (pyfloribotvi-
configParameter
                                                              (pyfloribotvi-
                                                                                                     sion.plugins.python.Data To St dout.Data To St dout\\
              sion.plugins.opencv. CVF ind Contours. CVF ind Contours\\
                                                                                                     attribute), 18
              attribute), 14
                                                                                       configParameter
                                                                                                                                                      (pyfloribotvi-
configParameter
                                                              (pyfloribotvi-
                                                                                                     sion.plugins.python.Delta Time Per Frame.Delta Time Per Frame
              sion.plugins.opencv.CVGaussBlur.CVGaussBlur
                                                                                                     attribute), 18
              attribute), 14
                                                                                       configParameter
                                                                                                                                                      (pyfloribotvi-
                                                              (pyfloribotvi-
                                                                                                     sion.plugins.python.Histogram.Histogram
configParameter
              sion.plugins.opencv.CVInRange.CVInRange
                                                                                                     attribute), 18
                                                                                                                                                      (pyfloribotvi-
              attribute), 15
                                                                                      configParameter
configParameter
                                                              (pyfloribotvi-
                                                                                                     sion.plugins.python.New Image.New Image\\
              sion.plugins.opencv.CVMorphologyEx.CVMorphologyExattribute), 19
              attribute), 15
                                                                                       ContextManager
                                                                                                                         (class
                                                                                                                                          in
                                                                                                                                                       pyfloribotvi-
configParameter
                                                              (pyfloribotvi-
                                                                                                     sion.manager.ContextManager), 10
              sion.plugins.opencv.CVStructuringElement.CVStructuringElement
                                                                                                                                                      (pyfloribotvi-
                                                                                                     sion. guicontrol. qt 4. ui. Image Parameter. Image Parameter\\
              attribute), 15
configParameter
                                                              (pyfloribotvi-
                                                                                                     method), 6
              sion.plugins.opencv.CVTransformColor.CVTransformPolorConfigToDict()
                                                                                                                                                      (pyfloribotvi-
                                                                                                     sion.controller.ConfigController.ConfigController
              attribute), 15
configParameter
                                                              (pyfloribotvi-
                                                                                                     method), 4
              sion.plugins.opencv.CVValueList.CVValueList createCallbackListIfNotExist()
                                                                                                                                                      (pyfloribotvi-
              attribute), 15
                                                                                                     sion.guicontrol.qt4.ui.BaseParameterClasses.ValueCallback
configParameter
                                                              (pyfloribotvi-
                                                                                                     method), 5
              sion.plugins.opencv.DirectCVCamSource.DirectCVAttactions.opencv.DirectCVCamSource.DirectCVAttactions.opencv.DirectCVCamSource.DirectCVAttactions.opencv.DirectCVCamSource.DirectCVAttactions.opencv.DirectCVCamSource.DirectCVAttactions.opencv.DirectCVCamSource.DirectCVAttactions.opencv.DirectCVCamSource.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.DirectCVAttactions.opencv.Di
              attribute), 16
                                                                                                     sion.plugins.opencv.CreateContourBinaryImage),
configParameter
                                                              (pyfloribotvi-
                                                                                                      16
              sion.plugins.opencv.DirectCVImageSource.DirectCVImageSource
                                                                                                                       (class
                                                                                                                                          in
                                                                                                                                                       pyfloribotvi-
              attribute), 16
                                                                                                     sion.plugins.opency.CVBitwiseAnd), 13
configParameter
                                                              (pyfloribotvi- CVBitwiseOr
                                                                                                                      (class
                                                                                                                                                       pyfloribotvi-
                                                                                                                                         in
              sion.plugins.opencv.DirectVideoSource.DirectVideoSourceion.plugins.opencv.CVBitwiseOr), 13
                                                                                                                                                       pyfloribotvi-
                                                                                       CVContourConstraint
              attribute), 16
                                                                                                                              (class
                                                                                                                                             in
configParameter
                                                              (pyfloribotvi-
                                                                                                     sion.plugins.opencv.CVContourConstraint),
              sion.plugins.opencv. File CV Image Output. File CV Image Output\\
                                                                                                                                                       pyfloribotvi-
              attribute), 16
                                                                                       CVDrawCicles
                                                                                                                       (class
                                                                                                                                          in
configParameter
                                                              (pyfloribotvi-
                                                                                                     sion.plugins.opencv.CVDrawCicles), 14
              sion.plugins.opencv.FileVideoOutput.FileVideoOwtDrawContours
                                                                                                                                                       pyfloribotvi-
                                                                                                                          (class
                                                                                                                                           in
              attribute), 17
                                                                                                     sion.plugins.opencv.CVDrawContours),
configParameter
                                                              (pyfloribotvi-
                                                                                                      14
              sion.plugins.opencv.HoughCircles.HoughCircle&VFindContours
                                                                                                                          (class
                                                                                                                                                       pyfloribotvi-
                                                                                                                                          in
                                                                                                     sion.plugins.opencv.CVFindContours),
              attribute), 17
configParameter
                                                                                                      14
                                                              (pyfloribotvi-
              sion.plugins.opencv.HuMoments.HuMoments CVGaussBlur
                                                                                                                      (class
                                                                                                                                         in
                                                                                                                                                       pyfloribotvi-
              attribute), 17
                                                                                                     sion.plugins.opencv.CVGaussBlur), 14
configParameter
                                                              (pyfloribotvi-
                                                                                      CVInRange
                                                                                                                    (class
                                                                                                                                                       pyfloribotvi-
                                                                                                                                        in
              sion.plugins.opencv.Merge.Merge attribute),
                                                                                                     sion.plugins.opencv.CVInRange), 15
                                                                                                                                                       pyfloribotvi-
                                                                                       CVMorphologyEx
                                                                                                                          (class
configParameter
                                                              (pyfloribotvi-
                                                                                                     sion.plugins.opencv.CVMorphologyEx),
              sion.plugins.opencv.Moments.Moments
              attribute), 17
                                                                                       CVStructuringElement
                                                                                                                                                       pyfloribotvi-
                                                                                                                               (class
                                                                                                                                              in
configParameter
                                                              (pyfloribotvi-
                                                                                                     sion.plugins.opencv.CVStructuringElement),
              sion.plugins.opencv.ScreenCVImageOutput.ScreenCVImageOutput
              attribute), 17
                                                                                       CVTransformColor
                                                                                                                            (class
                                                                                                                                                       pyfloribotvi-
                                                                                                                                            in
configParameter
                                                              (pyfloribotvi-
                                                                                                     sion.plugins.opencv.CVTransformColor),
              sion.plugins.opency.Threshold.Threshold
                                                                                                     15
              attribute), 18
                                                                                       CVValueList
                                                                                                                     (class
                                                                                                                                                       pyfloribotvi-
                                                                                                                                         in
                                                              (pyfloribotvi-
configParameter
                                                                                                     sion.plugins.opencv.CVValueList), 15
              sion.plugins.opencv.Watershed.Watershed
              attribute), 18
```

D	externalCall() (pyfloribotvi-
data (pyfloribotvision.types.BaseType.BaseType attribute), 19	sion.plugins.bdv_labor.Deconvolution.Deconvolution method), 12
DataToStdout (class in pyfloribotvi-	externalCall() (pyfloribotvi-
sion.plugins.python.DataToStdout), 18	sion.plugins.bdv_labor.InvertImage.InvertImage
dataUpdateCallback() (pyfloribotvi-	method), 12 externalCall() (pyfloribotvi-
sion.types.BaseListType.BaseListType	sion.plugins.bdv_labor.MSER.MSER
method), 19	method), 12
dataUpdateCallback() (pyfloribotvi- sion.types.BaseType.BaseType method),	externalCall() (pyfloribotvi-
19	sion.plugins.bdv_labor.WeightChanels.WeightChanels
Deconvolution (class in pyfloribotvi-	method), 12
sion.plugins.bdv_labor.Deconvolution),	externalCall() (pyfloribotvi-
12	sion. plugins. floribot. File Pickle Segment Output. Fil
defocus_kernel() (pyfloribotvi-	method), 12
sion.plugins.bdv_labor.Deconvolution.Deconvo	voraternalCall() (pyfloribotvi-
method), 12	sion.plugins.kinect.DirectKinectSource.DirectKinectSource
DeltaTimePerFrame (class in pyfloribotvi-	method), 13
sion.plugins.python.DeltaTimePerFrame),	externalCall() (pyfloribotvi- sion.plugins.opencv.ApplyColorMap.ApplyColorMap
18	method), 13
DirectCVCamSource (class in pyfloribotvi-	externalCall() (pyfloribotvi-
sion.plugins.opencv.DirectCVCamSource),	sion.plugins.opencv.Canny.Canny method),
DirectCVImageSource (class in pyfloribotvi-	15
sion.plugins.opencv.DirectCVImageSource),	externalCall() (pyfloribotvi-
16	sion.plugins.opencv.CreateContourBinaryImage.CreateContour
DirectKinectSource (class in pyfloribotvi-	method), 16
sion.plugins.kinect.DirectKinectSource),	externalCall() (pyfloribotvi-
13	sion.plugins.opencv.CVBitwiseAnd.CVBitwiseAnd
DirectVideoSource (class in pyfloribotvi-	method), 13
sion.plugins.opencv.DirectVideoSource),	externalCall() (pyfloribotvi-
16	sion.plugins.opencv.CVBitwiseOr.CVBitwiseOr
doNotify() (pyfloribotvi-	method), 13
sion.guicontrol.qt4.ui.BaseParameterClasses.V	VarxternalCall() (pyfloribotvi- sion.plugins.opencv.CVContourConstraint.CVContourConstrai
method), 5	method), 14
drawText() (pyfloribotvi-	
sion.plugins.opencv.CVDrawContours.CVDrawmethod), 14	sion.plugins.opencv.CVDrawCicles.CVDrawCicles
drawTextMarker() (pyfloribotvi-	method), 14
sion.plugins.opencv.CVDrawContours.CVDrav	
method), 14	sion.plugins.opencv.CVDrawContours.CVDrawContours
	method), 14
E	externalCall() (pyfloribotvi-
executeApplicationContext() (pyfloribotvi-	sion.plugins.opencv.CVFindContours.CVFindContours
sion.PyFloribotVision.PyFloribotVision	method), 14
method), 3	externalCall() (pyfloribotvi-
executeContext() (pyfloribotvi-	sion.plugins.opencv.CVGaussBlur.CVGaussBlur
sion.manager.ContextManager.ContextManage	er method), 14 externalCall() (pyfloribotvi-
method), 10	sion.plugins.opencv.CVInRange.CVInRange
executePlugins() (pyfloribotvi-	mathad) 15
sion.manager.ProcessManager.ProcessManage	er externalCall() (pyfloribotvi-
method), 10	sion.plugins.opencv.CVMorphologyEx.CVMorphologyEx
externalCall() (pyfloribotvi-	method), 15
sion.plugins.BasePlugin.BasePlugin method), 11	externalCall() (pyfloribotvi-
externalCall() (pyfloribotvi-	sion.plugins.opencv.CVStructuringElement.CVStructuringElen
sion.plugins.bdv_labor.CircleMarker.CircleMa	method), 15
method), 11	<del></del>

externalCall()	(pyfloribotvi-		16	
		uFsifePinCt	dSegmentOutput (class in	pyfloribotyi-
method), 15			sion.plugins.floribot.FilePickleS	
externalCall()	(pyfloribotvi-		12	
		FileVideo	Output (class in	pyfloribotvi-
method), 15	150.0 / /0.002150		sion.plugins.opencv.FileVideoC	
externalCall()	(pyfloribotvi-		17	output),
sion.plugins.opencv.DirectCVC				pyfloribotyi-
method), 16	24111504100.15110	or would unit	sion.guicontrol.qt4.ui.FloatPara	
externalCall()	(pyfloribotvi-		6	,,
		eFeltoGaV/Tvama	ege <b>Slauss</b> cein pyfloribotvision.type	es FloatType)
method), 16	magesource.Di	чений пущи	20	es.i ioutiype),
externalCall()	(pyfloribotvi-		20	
sion.plugins.opencv.DirectVide		Geografia	rce.	
method), 16	osource.Direct	getConfig		(nyfloriboty)
externalCall()	(pyfloribotvi-	getConng		(pyfloribotvi-
sion.plugins.opencv.FileCVIma		WImagaO	sion.controller.ConfigControlle	r.ComigController
	igeOutput.TheC			(
method), 16	(my flomiboty i	geiConve	ertedData()	(pyfloribotvi-
externalCall()	(pyfloribotvi-	. 0	sion.types.BaseType.BaseType	method),
sion.plugins.opencv.FileVideoC	Juipui.File video	-		( O '1 . '
method), 17	(	getConve	ertedValue()	(pyfloribotvi-
externalCall()	(pyfloribotvi-		sion.types.BaseType.BaseType	method),
sion.plugins.opencv.HoughCirc	cles.HoughCircle		19	
method), 17	( G '1	getOption		(pyfloribotvi-
externalCall()	(pyfloribotvi-		sion.controller.ConfigControlle	r.ConfigController
sion.plugins.opencv.HuMomen	ts.HuMoments		method), 4	
method), 17		getSectio		(pyfloribotvi-
externalCall()	(pyfloribotvi-		sion.controller.ConfigControlle	r.ConfigController
sion.plugins.opencv.Merge.Mer	rge method),		method), 4	
17		1.1		
externalCall()	17	Н		
sion.plugins.opencv.Moments.l	Moments	handleBo	polType()	(pyfloribotvi-
method), 17			sion.guicontrol.qt4.ui.MainWin	dow.MainWindow
externalCall()	(pyfloribotvi-		method), 7	
sion.plugins.opencv.ScreenCV	ImageOutput.Sc	raanGiVH	zaer Gutout	(pyfloribotvi-
method), 17			sion.guicontrol.qt4.ui.MainWin	dow.MainWindow
externalCall()	(pyfloribotvi-		method), 7	
sion.plugins.opencv.Threshold.	Threshold	handleIm	nageType()	(pyfloribotvi-
method), 18			sion.guicontrol.qt4.ui.MainWin	
externalCall()	(pyfloribotvi-		method), 7	
sion.plugins.opencv.Watershed	.Watershed	handleInt	tListType()	(pyfloribotvi-
method), 18			sion.guicontrol.qt4.ui.MainWin	
externalCall()	(pyfloribotvi-		method), 7	
sion.plugins.python.DataToStd	out.DataToStdo	u <b>h</b> andleInt	tNestedListType()	(pyfloribotvi-
method), 18		11411414111	sion.guicontrol.qt4.ui.MainWin	* *
externalCall()	(pyfloribotvi-		method), 7	ido William Williao W
sion.plugins.python.DeltaTime	PerFrame.Delta'	TimePerE	ranse()	(pyfloribotvi-
method), 18		nunarenn	sion.guicontrol.qt4.ui.MainWin	
externalCall()	(pyfloribotvi-		method), 7	dow.iviaiii vi iiidow
sion.plugins.python.Histogram.	~ *	handleNa		(pyfloribotvi-
method), 18	C	manufciva	•	* *
externalCall()	(pyfloribotvi-		sion.guicontrol.qt4.ui.MainWin	igow.iviaiii vv iiiqow
sion.plugins.python.NewImage		handlaCt	method), 7 ringType()	(nyfloriboty)
method), 19		nanuiesti		(pyfloribotvi-
11104104), 17			sion.guicontrol.qt4.ui.MainWin	uow.wiamwindow
F		Hicks	method), 7	mr.flor:14- '
	pufforibote:	Histograi		pyfloribotvi-
FileCVImageOutput (class in sion.plugins.opencv.FileCVImageOvtput)	pyfloribotvi-		sion.plugins.python.Histogram)	, 10

HoughCircles (class in pyfloribotvi sion.plugins.opencv.HoughCircles), 17 HuMoments (class in pyfloribotvi sion.plugins.opencv.HuMoments), 17	ri- itemClicked() (pyfloribotvi- sion.guicontrol.qt4.ui.MainWindow.MainWindow ri- method), 7
1	L
I ImageListType (class in pyfloribotvi sion.types.ImageListType), 20	lineEditChanged() (pyfloribotvi- ri- sion.guicontrol.qt4.ui.FloatParameter.FloatParameter method), 6
ImageParameter (class in pyfloribotvi sion.guicontrol.qt4.ui.ImageParameter),	
6 ImageType (class in pyfloribotvision.types.ImageType) 20	
initApplicationContext() (pyfloribotvi sion.PyFloribotVision.PyFloribotVision method), 3	ri- method), 7 lineEditChanged() (pyfloribotvi- sion.guicontrol.qt4.ui.StringParameter.StringParameter
initCam() (pyfloribotvi	
sion.plugins.opencv.DirectCVCamSource.Dimethod), 16	sion.guicontrol.qt4.ui.MainWindow.MainWindow
initContext() (pyfloribotvi sion.manager.ContextManager.ContextMana method), 10	
initLog() (pyfloribotvision.types.BaseType.BaseType method), 19	loadPluginClass() (pyfloribotvi-
initTypeHandleDict() (pyfloribotvi sion.guicontrol.qt4.ui.MainWindow.MainWi method), 7	
initVideo() (pyfloribotvi	
sion.plugins.opencv.DirectVideoSource.Dire	
method), 16 instantiatePlugins() (pyfloribotvi	
method), 10	ager main() (in module pyfloribotvision.PyFloribotVision), 3  MainWindow (class in pyfloribotvi-
IntListElementParameter (class in pyfloribotvi sion.guicontrol.qt4.ui.IntListElementParame 6	
	ri- Moments (class in pyfloribotvi- sion.plugins.opencv.Moments), 17
6 IntListType (class in pyfloribotvi	MSER (class in pyfloribotvi- ri- sion.plugins.bdv_labor.MSER), 12
sion.types.IntListType), 20 IntNestedListParameter (class in pyfloribotvi	
sion.guicontrol.qt4.ui.IntNestedListParamete 7	sion.types.NameListType), 21
IntNestedListType (class in pyfloribotvi sion.types.IntNestedListType), 20	21
IntParameter (class in pyfloribotvi sion.guicontrol.qt4.ui.IntParameter), 7 IntType (class in pyfloribotvision.types.IntType), 20	i- NewImage (class in pyfloribotvi- sion.plugins.python.NewImage), 19
InvertImage (class in pyfloribotvi	ri- O
sion.plugins.bdv_labor.InvertImage), 12 invokeCallbacks() (pyfloribotvi sion.types.BaseListType.BaseListType	obligatoryConfigOptions (pyfloribotvi- sion.plugins.opencv.ApplyColorMap.ApplyColorMap attribute), 13
method), 19 invokeCallbacks() (pyfloribotvi	ri- P
sion.types.BaseType.BaseType method)	ParameterBase (class in pyfloribotvision.guicontrol.qt4.ui.ParameterBase),  8

```
PluginController
                                                                                                             pyfloribotvi-
                                                                                                                                                   preCyclicCall()
                                                                                                                                                                                                                                                              (pyfloribotvi-
                                                          (class
                                                                                       in
                         sion.controller.PluginController), 4
                                                                                                                                                                             sion.plugins.opencv.FileVideoOutput.FileVideoOutput
PluginDTO (class in pyfloribotvision.dto.PluginDTO),
                                                                                                                                                                             method), 17
                                                                                                                                                    preCyclicCall()
                                                                                                                                                                                                                                                               (pyfloribotvi-
PluginList
                                                                                                             pyfloribotvi-
                                                                                                                                                                             sion.plugins.python.Delta Time Per Frame.Delta Time Per Frame
                                                (class
                                                                                   in
                         sion.guicontrol.qt4.ui.PluginList), 8
                                                                                                                                                                             method), 18
postCyclicCall()
                                                                                                           (pyfloribotvi-
                                                                                                                                                   printTime()
                                                                                                                                                                                                                                                               (pyfloribotvi-
                         sion.plugins.BasePlugin.BasePlugin
                                                                                                                                                                             sion.plugins.python.DeltaTimePerFrame.DeltaTimePerFrame
                         method), 11
                                                                                                                                                                             method), 18
                                                                                                           (pyfloribotvi- ProcessManager
                                                                                                                                                                                                                                                                 pyfloribotvi-
postCyclicCall()
                                                                                                                                                                                                              (class
                                                                                                                                                                                                                                            in
                         sion.plugins.floribot.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePickleSegmentOutput.FilePick
                                                                                                                                                    PyFloribotVision
                         method), 12
                                                                                                                                                                                                               (class
                                                                                                                                                                                                                                            in
                                                                                                                                                                                                                                                                 pyfloribotvi-
                                                                                                          (pyfloribotvi-
                                                                                                                                                                             sion.PyFloribotVision), 3
postCyclicCall()
                         sion.plugins.python.DeltaTimePerFrame.DeltaTipyneDriHotaniseon (module), 3
                         method), 18
                                                                                                                                                   pyfloribotvision.controller (module), 4
                                                                                                                                                   pyfloribotvision.controller.ConfigController (module),
preCyclicCall()
                                                                                                           (pyfloribotvi-
                         sion.plugins.BasePlugin.BasePlugin
                         method), 11
                                                                                                                                                    pyfloribotvision.controller.PluginController (module),
preCyclicCall()
                                                                                                           (pyfloribotvi-
                         sion.plugins.bdv_labor.CircleMarker.CircleMarkerfloribotvision.dto (module), 5
                                                                                                                                                   pyfloribotvision.dto.PluginDTO (module), 5
                         method), 11
preCyclicCall()
                                                                                                           (pyfloribotvi-
                                                                                                                                                   pyfloribotvision.guicontrol (module), 5
                         sion.plugins.bdv_labor.Deconvolution.Deconvolutionibotvision.guicontrol.qt4 (module), 5
                         method), 12
                                                                                                                                                   pyfloribotvision.guicontrol.qt4.ui (module), 5
preCyclicCall()
                                                                                                           (pyfloribotvi-
                                                                                                                                                   pyfloribotvision.guicontrol.qt4.ui.BaseParameterClasses
                         sion.plugins.bdv\_labor.MSER.MSER
                                                                                                                                                                             (module), 5
                         method), 12
                                                                                                                                                   pyfloribotvision.guicontrol.qt4.ui.BoolParameter
                                                                                                          (pyfloribotvi-
                                                                                                                                                                             (module), 6
preCyclicCall()
                         sion.plugins.bdv_labor.WeightChanels.WeightChanflelsbotvision.guicontrol.qt4.ui.ConfigControl (mod-
                         method), 12
                                                                                                                                                                             ule), 6
                                                                                                          (pyfloribotvi- pyfloribotvision.guicontrol.qt4.ui.FloatParameter
preCyclicCall()
                         sion.plugins.floribot.FilePickleSegmentOutput.FilePickleSegmentOutput
                         method), 13
                                                                                                                                                   pyfloribotvision.guicontrol.qt4.ui.ImageParameter
preCyclicCall()
                                                                                                           (pyfloribotvi-
                                                                                                                                                                             (module), 6
                         sion.plugins.opencv.ApplyColorMap.ApplyColorMapibotvision.guicontrol.qt4.ui.IntListElementParameter
                         method), 13
                                                                                                                                                                             (module), 6
preCyclicCall()
                                                                                                          (pyfloribotvi- pyfloribotvision.guicontrol.qt4.ui.IntListParameter
                         sion.plugins.opencv.CVContourConstraint.CVContourConstrainte), 6
                         method), 14
                                                                                                                                                   pyfloribotvision.guicontrol.qt4.ui.IntNestedListParameter
preCyclicCall()
                                                                                                           (pyfloribotvi-
                                                                                                                                                                             (module), 7
                         sion.plugins.opencv.CVFindContours.CVFindContours.cVFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.cvFindContours.c
                         method), 14
                                                                                                                                                                             ule), 7
                                                                                                          (pyfloribotvi- pyfloribotvision.guicontrol.qt4.ui.MainWindow (mod-
                         sion.plugins.opencv.CVMorphologyEx.CVMorphologyExule), 7
                                                                                                                                                   pyfloribotvision.guicontrol.qt4.ui.ParameterBase
                         method), 15
preCyclicCall()
                                                                                                          (pyfloribotvi-
                                                                                                                                                                             (module), 8
                         sion.plugins.opencv.CVStructuringElement.CVStrflotibintgElementicontrol.qt4.ui.PluginList (module),
                         method), 15
                                                                                                          (pyfloribotvi- pyfloribotvision.guicontrol.qt4.ui.StringParameter
preCyclicCall()
                         sion.plugins.opencv.CVTransformColor.CVTransformColonodule), 8
                         method), 15
                                                                                                                                                   pyfloribotvision.guicontrol.qt4.ui.Ui_BoolParameter
                                                                                                           (pyfloribotvi-
preCyclicCall()
                                                                                                                                                                             (module), 8
                         sion.plugins.opencv.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCamSource.DirectCVCa
                         method), 16
                                                                                                                                                                             (module), 8
preCyclicCall()
                                                                                                           (pyfloribotvi- pyfloribotvision.guicontrol.qt4.ui.Ui_ImageParameter
                         sion.plugins.opencv. Direct Video Source. Direct Video Source module), \, 8
                                                                                                                                                   pyfloribotvision.guicontrol.qt4.ui.Ui_IntListElement
                         method), 16
                                                                                                                                                                             (module), 8
```

pyfloribotvision.guicontrol.qt4.ui.Ui_IntListParameter (module), 9	pyfloribotvision.plugins.opencv.CVMorphologyEx (module), 15
pyfloribotvision.guicontrol.qt4.ui.Ui_IntType (module), 9	pyfloribotvision.plugins.opencv.CVStructuringElement (module), 15
pyfloribotvision.guicontrol.qt4.ui.Ui_MainWindow (module), 9	pyfloribotvision.plugins.opencv.CVTransformColor (module), 15
pyfloribotvision.guicontrol.qt4.ui.Ui_ParameterBase (module), 9	pyfloribotvision.plugins.opencv.CVValueList (module), 15
pyfloribotvision.guicontrol.qt4.ui.Ui_PluginList (module), 9	pyfloribotvision.plugins.opencv.DirectCVCamSource (module), 16
pyfloribotvision.guicontrol.qt4.ui.Ui_StringParameter (module), 9	pyfloribotvision.plugins.opencv.DirectCVImageSource (module), 16
pyfloribotvision.guicontrol.qt4.uiimpl (module), 9 pyfloribotvision.manager (module), 10	pyfloribotvision.plugins.opencv.DirectVideoSource (module), 16
pyfloribotvision.manager.ContextManager (module), 10	pyfloribotvision.plugins.opencv.FileCVImageOutput (module), 16
$\label{eq:pyfloribotvision.manager.ProcessManager} \mbox{ (module)}, \\ 10$	pyfloribotvision.plugins.opencv.FileVideoOutput (module), 17
pyfloribotvision.plugins (module), 11 pyfloribotvision.plugins.BasePlugin (module), 11	pyfloribotvision.plugins.opencv.HoughCircles (module), 17
pyfloribotvision.plugins.bdv_labor (module), 11 pyfloribotvision.plugins.bdv_labor.CircleMarker (mod-	pyfloribotvision.plugins.opencv.HuMoments (module), 17
ule), 11	pyfloribotvision.plugins.opency.Merge (module), 17
pyfloribotvision.plugins.bdv_labor.Deconvolution (module), 12	pyfloribotvision.plugins.opencv.Moments (module), 17 pyfloribotvision.plugins.opencv.ScreenCVImageOutput
pyfloribotvision.plugins.bdv_labor.InvertImage (mod-	(module), 17
ule), 12	pyfloribotvision.plugins.opencv.Threshold (module),
pyfloribotvision.plugins.bdv_labor.MSER (module), 12 pyfloribotvision.plugins.bdv_labor.WeightChanels (module), 12	pyfloribotvision.plugins.opencv.Watershed (module), 18
pyfloribotvision.plugins.floribot (module), 12 pyfloribotvision.plugins.floribot.FilePickleSegmentOutpu (module), 12	pyfloribotvision.plugins.python (module), 18 apyfloribotvision.plugins.python.DataToStdout (mod- ule), 18
pyfloribotvision.plugins.kinect (module), 13	pyfloribotvision.plugins.python.DeltaTimePerFrame
pyfloribotvision.plugins.kinect.DirectKinectSource (module), 13	(module), 18 pyfloribotvision.plugins.python.Histogram (module),
pyfloribotvision.plugins.opencv (module), 13	18
pyfloribotvision.plugins.opencv.ApplyColorMap (module), 13	pylloribotvision.plugins.pyllon.NewImage (module),
pyfloribotvision.plugins.opencv.Canny (module), 15 pyfloribotvision.plugins.opencv.CreateContourBinaryIma	<del>-</del> •
(module), 16	pyfloribotvision.types (module), 19 pyfloribotvision.types.BaseListType (module), 19
pyfloribotvision.plugins.opencv.CVBitwiseAnd (module), 13	pyfloribotvision.types.BaseListType (module), 19 pyfloribotvision.types.BaseNestedListType (module),
pyfloribotvision.plugins.opencv.CVBitwiseOr (module), 13	19 pyfloribotvision.types.BaseType (module), 19
pyfloribotvision.plugins.opencv.CVContourConstraint (module), 14	pyfloribotvision.types.BoolType (module), 20 pyfloribotvision.types.FloatType (module), 20
pyfloribotvision.plugins.opencv.CVDrawCicles (module), 14	pyfloribotvision.types.ImageListType (module), 20 pyfloribotvision.types.ImageType (module), 20
pyfloribotvision.plugins.opencv.CVDrawContours	pyfloribotvision.types.IntListType (module), 20
(module), 14	pyfloribotvision.types.IntNestedListType (module), 20
pyfloribotvision.plugins.opencv.CVFindContours	pyfloribotvision.types.IntType (module), 20
(module), 14 pyfloribotvision.plugins.opencv.CVGaussBlur (mod-	pyfloribotvision.types.NameListType (module), 21 pyfloribotvision.types.NameType (module), 21
ule), 14 (mod-	pyfloribotvision.types.NameType (module), 21 pyfloribotvision.types.StringListType (module), 21
pyfloribotvision.plugins.opencv.CVInRange (module), 15	pyfloribotvision.types.StringNestedListType (module), 21

```
pyfloribotvision.types.StringType (module), 21
                                                                                                                                                                                                                                                                       method), 19
                                                                                                                                                                                                                                setupUi()
                                                                                                                                                                                                                                                                                                                                                                                                   (pyfloribotvi-
R
                                                                                                                                                                                                                                                                       sion.guicontrol.qt 4.ui. Ui\_Bool Parameter. Ui\_Bool Parameter
                                                                                                                                                                                                                                                                       method), 8
registerDataUpdate()
                                                                                                                                                                   (pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                                                                                                                                                                                                                setupUi()
                                      sion.types.BaseType.BaseType
                                                                                                                                                                                    method),
                                                                                                                                                                                                                                                                       sion.guicontrol.qt4.ui.Ui_ConfigControl.Ui_ConfigControl
                                       19
                                                                                                                                                                                                                                                                        method), 8
                                                                                                                                                                  (pyfloribotvi-
registerDependency()
                                                                                                                                                                                                                                                                                                                                                                                                     (pyfloribotvi-
                                      sion.manager.ProcessManager.ProcessManager setupUi()
                                                                                                                                                                                                                                                                       sion.guicontrol.qt4.ui.Ui_ImageParameter.Ui_ImageParameter
                                      method), 11
                                                                                                                                                                                                                                                                       method), 8
registerNotify()
                                                                                                                                                                  (pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                      sion.guicontrol.qt4.ui.BaseParameterClasses.ValueCPAHiback
                                                                                                                                                                                                                                                                        sion.guicontrol.qt4.ui.Ui_IntListElement.Ui_IntListElement
                                      method), 5
                                                                                                                                                                                                                                                                        method), 8
retranslateUi()
                                                                                                                                                                  (pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                      sion.guicontrol.qt4.ui.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.Ui_BoolParameter.
                                                                                                                                                                                                                                                                        sion.guicontrol.qt4.ui.Ui_IntListParameter.Ui_IntListParameter
                                      method), 8
                                                                                                                                                                                                                                                                        method), 9
retranslateUi()
                                                                                                                                                                   (pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                      sion.guicontrol.qt4.ui.Ui_ConfigControl.Ui_ConfigControl.
                                                                                                                                                                                                                                                                        sion.guicontrol.qt4.ui.Ui_IntType.Ui_IntType
                                      method), 8
                                                                                                                                                                                                                                                                        method), 9
retranslateUi()
                                                                                                                                                                   (pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                      sion.guicontrol.qt4.ui.Ui_ImageParameter.Ui_Infater all ameter
                                                                                                                                                                                                                                                                       sion.guicontrol.qt4.ui.Ui_MainWindow.Ui_MainWindow
                                      method), 8
                                                                                                                                                                                                                                                                        method), 9
retranslateUi()
                                                                                                                                                                   (pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                      sion.guicontrol.qt4.ui.Ui_IntListElement.Ui_IntListElement
                                                                                                                                                                                                                                                                        sion.guicontrol.qt4.ui.Ui_ParameterBase.Ui_ParameterBase
                                      method), 8
                                                                                                                                                                                                                                                                        method), 9
retranslateUi()
                                                                                                                                                                   (pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                      sion.guicontrol.qt4.ui.Ui IntListParameter.Ui IntListParameter
                                                                                                                                                                                                                                                                        sion.guicontrol.qt4.ui.Ui PluginList.Ui PluginList
                                      method), 9
                                                                                                                                                                                                                                                                       method), 9
retranslateUi()
                                                                                                                                                                  (pyfloribotvi-
                                                                                                                                                                                                                               setupUi()
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                      sion.guicontrol.qt4.ui.Ui IntType.Ui IntType
                                                                                                                                                                                                                                                                        sion.guicontrol.qt4.ui.Ui StringParameter.Ui StringParameter
                                      method), 9
                                                                                                                                                                                                                                                                        method), 9
retranslateUi()
                                                                                                                                                                   (pyfloribotvi-
                                      sion.guicontrol.qt4.ui.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui\_MainWindow.Ui_MainWindow.Ui_MainWindow.Ui_MainWindow.Ui_MainWindow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Mainwow.Ui_Ma
                                                                                                                                                                                                                                                                                                                                                                                                   (pyfloribotvi-
                                                                                                                                                                                                                                                                        sion. guicontrol. qt 4. ui. Float Parameter. Float Parameter \\
                                      method), 9
                                                                                                                                                                                                                                                                        method), 6
retranslateUi()
                                                                                                                                                                   (pyfloribotvi-
                                       sion.guicontrol.qt4.ui.Ui\_Parameter Base.Ui\_Paralidet Gransed ()
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                                                                                                                                                                                                                                                        sion. guicontrol. qt 4.ui. Int List Element Parameter. Int List Element Parameter. Int List Element Parameter and Parameter an
                                      method), 9
                                                                                                                                                                                                                                                                        method), 6
retranslateUi()
                                                                                                                                                                   (pyfloribotvi-
                                      sion.guicontrol.qt4.ui.Ui\_PluginList.Ui\_PluginIslielerChanged()
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                                                                                                                                                                                                                                                       sion.guicontrol.qt4.ui.IntParameter.IntParameter
                                      method), 9
                                                                                                                                                                                                                                                                        method), 7
retranslateUi()
                                                                                                                                                                  (pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                                                       pyfloribotvi-
                                      sion.guicontrol.qt4.ui.Ui_StringParameter.Ui_StringPariatTette
                                                                                                                                                                                                                                                                                                                      (class
                                                                                                                                                                                                                                                                                                                                                                    in
                                                                                                                                                                                                                                                                        sion.types.StringListType), 21
                                      method), 9
                                                                                                                                                                                                                                 StringNestedListType
                                                                                                                                                                                                                                                                                                                                      (class
                                                                                                                                                                                                                                                                                                                                                                                                       pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                             in
S
                                                                                                                                                                                                                                                                        sion.types.StringNestedListType), 21
                                                                                                                                                                                                                                                                                                                        (class
                                                                                                                                                                                                                                                                                                                                                                                                       pyfloribotvi-
                                                                                                                                                                                                                                StringParameter
                                                                                                                                                                                                                                                                                                                                                                       in
                                                                                                                                                                   (pyfloribotvi-
scaleValue()
                                                                                                                                                                                                                                                                        sion.guicontrol.qt4.ui.StringParameter),
                                      sion.guicontrol.qt4.ui.FloatParameter.FloatParameter
                                      method), 6
                                                                                                                                                                                                                                StringType (class in pyfloribotvision.types.StringType),
ScreenCVImageOutput
                                                                                                          (class
                                                                                                                                              in
                                                                                                                                                                      pyfloribotvi-
                                                                                                                                                                                                                                                                        21
                                      sion.plugins.opencv.ScreenCVImageOutput),
                                       17
                                                                                                                                                                                                                                  Т
setBaseContent()
                                                                                                                                                                   (pyfloribotvi-
                                                                                                                                                                                                                                                                                                                                                                                                       pyfloribotvi-
                                      sion.guicontrol.qt4.ui.IntNestedListParameter.IntNestedListParameter.stParameter.IntNestedListParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParameter.stParamete
                                                                                                                                                                                                                                                                        sion.plugins.opencv.Threshold), 18
                                      method), 7
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                                                                                                                                                                                                               timeBypassActions()
                                                                                                                                                                  (pyfloribotvi-
setContent()
                                      sion.guicontrol.qt4.ui.IntListParameter.IntListParameter sion.plugins.BasePlugin.BasePlugin
                                                                                                                                                                                                                                                                       method), 11
                                      method), 7
                                                                                                                                                                                                                                timeBypassActions()
                                                                                                                                                                                                                                                                                                                                                                                                    (pyfloribotvi-
setDataValue()
                                                                                                                                                                  (pyfloribotvi-
                                                                                                                                                                                                                                                                       sion.plugins.opencv. Direct CV Cam Source. Direct CV Cam Source and the state of 
                                       sion.types.BaseListType.BaseListType
```

```
W
                           method), 16
toggleShowImage()
                                                                                                                   (pyfloribotvi-
                                                                                                                                                               Watershed
                                                                                                                                                                                                                    (class
                                                                                                                                                                                                                                                                                      pyfloribotvi-
                                                                                                                                                                                                                                                          in
                           sion.guicontrol.qt4.ui.ImageParameter.ImageParameter
                                                                                                                                                                                           sion.plugins.opencv.Watershed), 18
                           method), 6
                                                                                                                                                                 WeightChanels
                                                                                                                                                                                                                            (class
                                                                                                                                                                                                                                                                                      pyfloribotvi-
                                                                                                                                                                                                                                                              in
                                                                                                                    (pyfloribotvi-
triggerPluginMethods()
                                                                                                                                                                                           sion.plugins.bdv_labor.WeightChanels),
                           sion.manager.ProcessManager.ProcessManager
                                                                                                                                                                                            12
                           method), 11
                                                                                                                                                                widgetValueChanged()
                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                                                                                                                                                                                           sion.guicontrol.qt 4.ui. Int List Parameter. Int List Parameter
U
                                                                                                                                                                                           method), 7
Ui_BoolParameter
                                                                                                                      pyfloribotvi-
                                                                   (class
                                                                                                 in
                                                                                                                                                               widgetValueChanged()
                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                           sion.guicontrol.qt4.ui.Ui_BoolParameter),
                                                                                                                                                                                           sion. guicontrol. qt 4.ui. Int Nested List Parameter. Int Nested List Par
                                                                                                                                                                                            method), 7
Ui_ConfigControl
                                                                  (class
                                                                                                 in
                                                                                                                      pyfloribotvi-
                                                                                                                                                               widgetValueChanged()
                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                           sion.guicontrol.qt4.ui.Ui ConfigControl),
                                                                                                                                                                                           sion.guicontrol.qt4.ui.MainWindow.MainWindow
                                                                                                                                                                                            method), 7
Ui ImageParameter
                                                                                                                      pyfloribotvi-
                                                                     (class
                                                                                                  in
                                                                                                                                                               writeCacheToFile()
                                                                                                                                                                                                                                                                                    (pyfloribotvi-
                           sion.guicontrol.qt4.ui.Ui ImageParameter),
                                                                                                                                                                                            sion.plugins.floribot.File Pickle Segment Output.File Pickle File Pickle File Pickle File Pickle File Pickle File Pickle File P
                                                                                                                                                                                            method), 13
Ui_IntListElement
                                                                   (class
                                                                                                                      pyfloribotvi-
                                                                                                 in
                           sion.guicontrol.qt4.ui.Ui_IntListElement),
Ui_IntListParameter
                                                                      (class
                                                                                                   in
                                                                                                                      pyfloribotvi-
                           sion.guicontrol.qt4.ui.Ui_IntListParameter),
Ui_IntType
                                                     (class
                                                                                                                      pyfloribotvi-
                                                                                           in
                            sion.guicontrol.qt4.ui.Ui_IntType), 9
Ui MainWindow
                                                                 (class
                                                                                                                      pyfloribotvi-
                                                                                                in
                           sion.guicontrol.qt4.ui.Ui_MainWindow),
Ui_ParameterBase
                                                                                                                      pyfloribotvi-
                                                                   (class
                                                                                                 in
                           sion.guicontrol.qt4.ui.Ui_ParameterBase),
Ui_PluginList
                                                          (class
                                                                                             in
                                                                                                                      pyfloribotvi-
                           sion.guicontrol.qt4.ui.Ui_PluginList), 9
Ui_StringParameter
                                                                    (class
                                                                                                                      pyfloribotvi-
                                                                                                  in
                           sion.guicontrol.qt4.ui.Ui StringParameter),
updateImage()
                                                                                                                    (pyfloribotvi-
                           sion.guicontrol.qt4.ui.ImageParameter.ImageParameter
                           method), 6
                                                                                                                   (pyfloribotvi-
updateValue()
                           sion. guicontrol. qt 4. ui. Base Parameter Classes. Value Update \\
                           method), 5
value (pyfloribotvision.types.BaseListType.BaseListType
                           attribute), 19
value (pyfloribotvision.types.BaseNestedListType.BaseNestedListType
                           attribute), 19
value (pyfloribotvision.types.BaseType.BaseType at-
                           tribute), 20
ValueCallback
                                                                                                                      pyfloribotvi-
                                                           (class
                                                                                             in
                           sion.guicontrol.qt4.ui.BaseParameterClasses),
ValueUpdate
                                                                                                                      pyfloribotvi-
                                                        (class
                                                                                            in
                            sion.guicontrol.qt4.ui.BaseParameterClasses),
```