A3DP GUI Toolkit

0.3

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Chapter 1

A3DP GUI Toolkit

1.1 Introduction

This directory contains a collection of Graphical User Interfaces (GUIs) based on the QGIS plugin platform. The GUIs are dialog-based user interfaces designed in Qt-5. The QGIS plugins platform supports the Python programming language, and as a result the A3DP GUI Toolkit is written in Python 3.7.

1.2 How Does It Work?

The Python-based QGIS plugins are designed as wrappers for the C++ software modules for SMACT. The QGIS plugins accept user input through the GUI dialogs, then pass on these input parameters to the C++ command line.

1.3 Requirements

The following pre-requisites must be satisfied to install and use the plugins.

- QGIS version 3.14 or newer
  - Version 3.16 long-term release is preferred for stability

To build documentation (optional), the following additional software are required.

- Doxygen v 1.8.18 or newer
- doxypypy v 0.8.8 or newer
- LaTex (optional) to create a PDF document

1.4 Installation

The plugins are installed in three steps:

1. Install QGIS
2. Deploy/Install plugins
3. Activate/Enable plugins in QGIS

Please follow the instructions provided in the ![user manual][1] to install the plugins.

1.5 Post-Installation

The installation will create menu items in QGIS, named `Image Registration` and `ATDR`. These will have sub-menu items corresponding to the different software modules delivered under SMACT.

To use these C++ software, their location must be specified to the plugins. To specify the location, first launch the `Image Registration > Settings Configuration` plugin, then click the button [...] and select the folder (called `qgis-exes`).

The C++ software can be located anywhere on the same computer. If using the installer, `setup.cmd` version 0.3 or newer, the software will typically be placed at `C:\OSGeo4W64\smact`. In older versions, the installer will *NOT* copy the downloaded C++ software. In either case, users can manually copy all the EXE and DLL files to any folder on the computer, and select that folder from the `Image Registration > Settings Configuration` plugin dialog.

1.6 References

[1]: AUG Signals, "SMACT UI Installation Manual.pdf", August 2021

Chapter 2

Namespace Index

2.1 Packages

Here are the packages with brief descriptions (if available):

Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

Chapter 5

Namespace Documentation

5.1 classifier_tester.classifier_tester Namespace Reference

Classes

- class ClassifierTester

    QGIS Plugin Implementation.

5.2 classifier_trainer.classifier_trainer Namespace Reference

Classes

- class ClassifierTrainer

    QGIS Plugin Implementation.

5.3 contour_detection.contour_detection Namespace Reference

Classes

- class ContourDetection

    QGIS Plugin Implementation.

5.4 edge_detection.edge_detection Namespace Reference

Classes

- class EdgeDetection

    QGIS Plugin Implementation.

5.5 feat_dataset_generator.feat_dataset_generator Namespace Reference

Classes

- class FeatDatasetGenerator
  QGIS Plugin Implementation.

5.6 fourier_transform.fourier_transform Namespace Reference

Classes

- class FourierTransform
  QGIS Plugin Implementation.

5.7 gabor_filter.gabor_filter Namespace Reference

Classes

- class GaborFilter
  QGIS Plugin Implementation.

5.8 histogram.histogram Namespace Reference

Classes

- class Histogram
  QGIS Plugin Implementation.

5.9 hu_moment.hu_moment Namespace Reference

Classes

- class HuMoments
  QGIS Plugin Implementation.

5.10 image_fusion.image_fusion Namespace Reference

Classes

- class ImageFusion
  QGIS Plugin Implementation.

5.11 image_registration.image_registration Namespace Reference

Classes

- class ImageRegistration
  QGIS Plugin Implementation.

5.12 lee_sigma_filter.lee_sigma_filter Namespace Reference

Classes

- class LeeSigmaFilter
  QGIS Plugin Implementation.

5.13 markov_chain_cfar.markov_chain_cfar Namespace Reference

Classes

- class MarkovChainCFAR
  QGIS Plugin Implementation.

5.14 model_based_cfar.model_based_cfar Namespace Reference

Classes

- class ModelBasedCFAR
  QGIS Plugin Implementation.

5.15 multi_cfar.multi_cfar Namespace Reference

Classes

- class MultiCFAR
  QGIS Plugin Implementation.

5.16 multihypothesis.multihypothesis Namespace Reference

Classes

- class MultiHypothesis
  QGIS Plugin Implementation.

5.17 range_doppler.range_doppler Namespace Reference

Classes

- class RangeDopplerTerrainCorrection

  QGIS Plugin Implementation.

5.18 refined_lee_filter.refined_lee_filter Namespace Reference

Classes

- class RefinedLeeFilter

  QGIS Plugin Implementation.

5.19 segmentation.segmentation Namespace Reference

Classes

- class Segmentation

  QGIS Plugin Implementation.

5.20 settings_configuration.settings_configuration Namespace Reference

Classes

- class SettingsConfiguration

  QGIS Plugin Implementation.

5.21 speckle_filter.speckle_filter Namespace Reference

Classes

- class SpeckleFilter

  QGIS Plugin Implementation.

5.22 tamura_filter.tamura_filter Namespace Reference

Classes

- class TamuraFilter

  QGIS Plugin Implementation.

5.23 target_orientation.target_orientation Namespace Reference

Classes

- class TargetOrientation

  QGIS Plugin Implementation.

5.24 target_segmentation.target_segmentation Namespace Reference

Classes

- class TargetSegmentation

  QGIS Plugin Implementation.

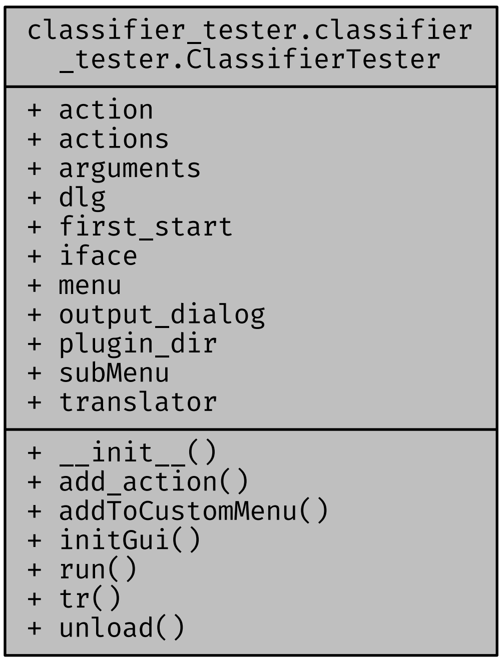
Chapter 6

Class Documentation

6.1 classifier_tester.classifier_tester.ClassifierTester Class Reference

QGIS Plugin Implementation.

Collaboration diagram for classifier_tester.classifier_tester.ClassifierTester:



Public Member Functions

- def __init__ (self, iface)

    Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

    Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

    Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

    Run method that performs all the real work.
- def tr (self, message)

    Get the translation for a string using Qt translation API.
- def unload (self)

    Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.1.1 Detailed Description

QGIS Plugin Implementation.

6.1.2 Constructor & Destructor Documentation

6.1.2.1 __init__()

```
def classifier_tester.classifier_tester.ClassifierTester.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.1.3 Member Function Documentation

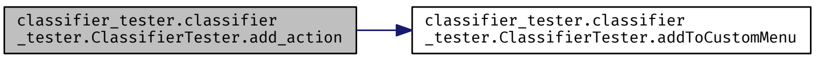
6.1.3.1 add_action()

```
def classifier_tester.classifier_tester.ClassifierTester.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_tester.classifier _tester.ClassifierTester.addToCustomMenu

6.1.3.2 addToCustomMenu()

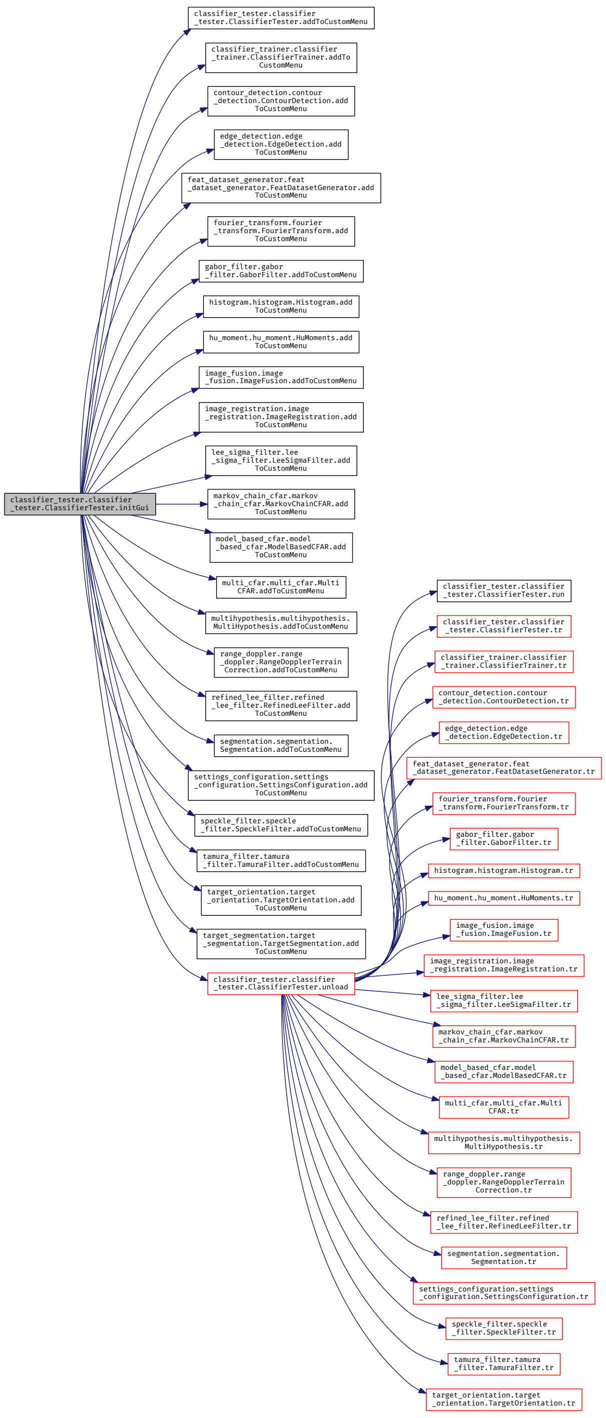
```
def classifier_tester.classifier_tester.ClassifierTester.addToCustomMenu (
              self )
```

6.1.3.3 initGui()

```
def classifier_tester.classifier_tester.ClassifierTester.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


classifier_tester.classifier_tester.ClassifierTester.initGui
classifier_tester.classifier_tester.ClassifierTester.addToCustomMenu
classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu
contour_detection.contour_detection.ContourDetection.addToCustomMenu
edge_detection.edge_detection.EdgeDetection.addToCustomMenu
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.addToCustomMenu
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu
histogram.histogram.Histogram.addToCustomMenu
hu_moment.hu_moment.HuMoments.addToCustomMenu
image_fusion.image_fusion.ImageFusion.addToCustomMenu
image_registration.image_registration.ImageRegistration.addToCustomMenu
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu
model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu
multi_cfar.multi_cfar.MultiCFAR.addToCustomMenu
multihypothesis.multihypothesis.MultiHypothesis.addToCustomMenu
range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu
segmentation.segmentation.Segmentation.addToCustomMenu
settings_configuration.settings_configuration.SettingsConfiguration.addToCustomMenu
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu
tamura_filter.tamura_filter.TamuraFilter.addToCustomMenu
target_orientation.target_orientation.TargetOrientation.addToCustomMenu
target_segmentation.target_segmentation.TargetSegmentation.addToCustomMenu
classifier_tester.classifier_tester.ClassifierTester.unload
classifier_tester.classifier_tester.ClassifierTester.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr

6.1.3.4 run()

```
def classifier_tester.classifier_tester.ClassifierTester.run (
                self )
```

Run method that performs all the real work.

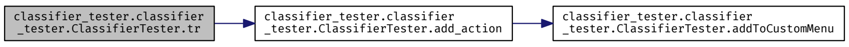
6.1.3.5 tr()

```
def classifier_tester.classifier_tester.ClassifierTester.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

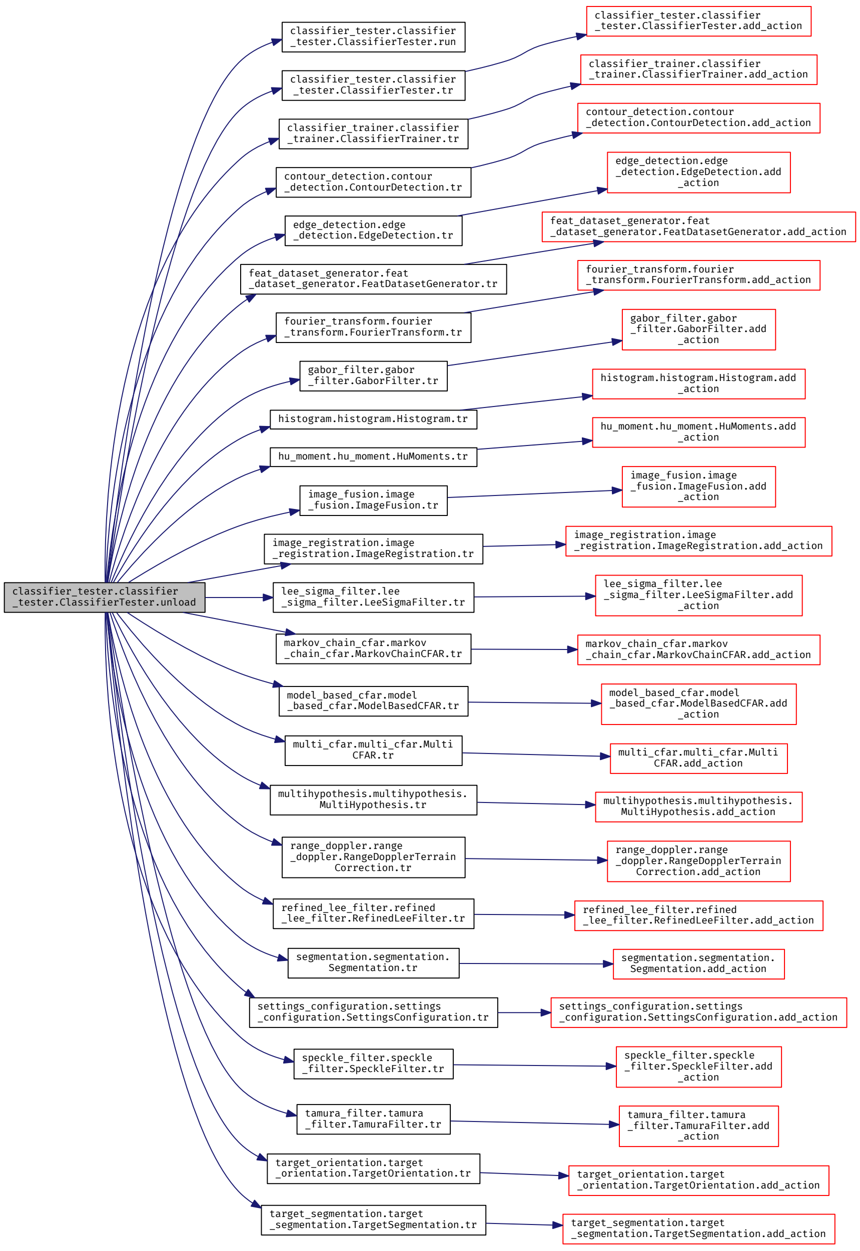

classifier_tester.classifier
_tester.ClassifierTester.tr
classifier_tester.classifier
_tester.ClassifierTester.add_action
classifier_tester.classifier
_tester.ClassifierTester.addToCustomMenu

6.1.3.6 unload()

```
def classifier_tester.classifier_tester.ClassifierTester.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


classifier_tester.classifier_tester.ClassifierTester.unload
classifier_tester.classifier_tester.ClassifierTester.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
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segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.add_action

6.1.4 Member Data Documentation

6.1.4.1 action

`classifier_tester.classifier_tester.ClassifierTester.action`

6.1.4.2 actions

```
classifier_tester.classifier_tester.ClassifierTester.actions
```

6.1.4.3 arguments

```
classifier_tester.classifier_tester.ClassifierTester.arguments
```

6.1.4.4 dlg

```
classifier_tester.classifier_tester.ClassifierTester.dlg
```

6.1.4.5 first_start

```
classifier_tester.classifier_tester.ClassifierTester.first_start
```

6.1.4.6 iface

```
classifier_tester.classifier_tester.ClassifierTester.iface
```

6.1.4.7 menu

```
classifier_tester.classifier_tester.ClassifierTester.menu
```

6.1.4.8 output_dialog

```
classifier_tester.classifier_tester.ClassifierTester.output_dialog
```

6.1.4.9 plugin_dir

```
classifier_tester.classifier_tester.ClassifierTester.plugin_dir
```

6.1.4.10 subMenu

```
classifier_tester.classifier_tester.ClassifierTester.subMenu
```

6.1.4.11 translator

```
classifier_tester.classifier_tester.ClassifierTester.translator
```

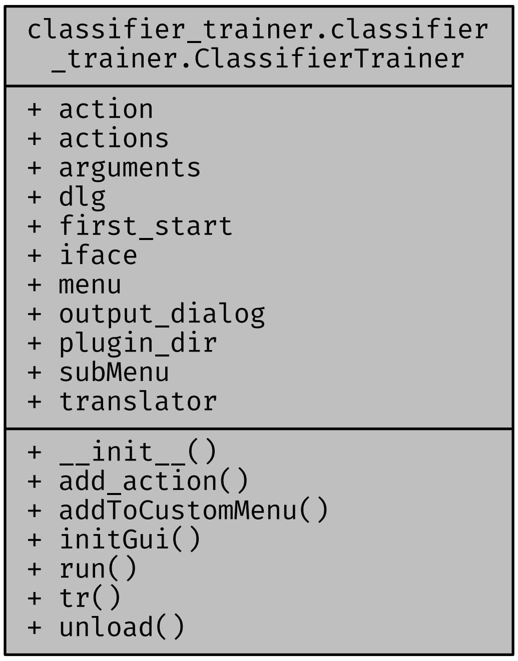
The documentation for this class was generated from the following file:

- classifier_tester.py

6.2 classifier_trainer.classifier_trainer.ClassifierTrainer Class Reference

QGIS Plugin Implementation.

Collaboration diagram for classifier_trainer.classifier_trainer.ClassifierTrainer:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.2.1 Detailed Description

QGIS Plugin Implementation.

6.2.2 Constructor & Destructor Documentation

6.2.2.1 __init__()

```
def classifier_trainer.classifier_trainer.ClassifierTrainer.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.2.3 Member Function Documentation

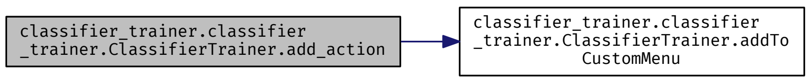
6.2.3.1 add_action()

```
def classifier_trainer.classifier_trainer.ClassifierTrainer.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


classifier_trainer.classifier
_trainer.ClassifierTrainer.add_action
classifier_trainer.classifier
_trainer.ClassifierTrainer.addTo
CustomMenu

6.2.3.2 addToCustomMenu()

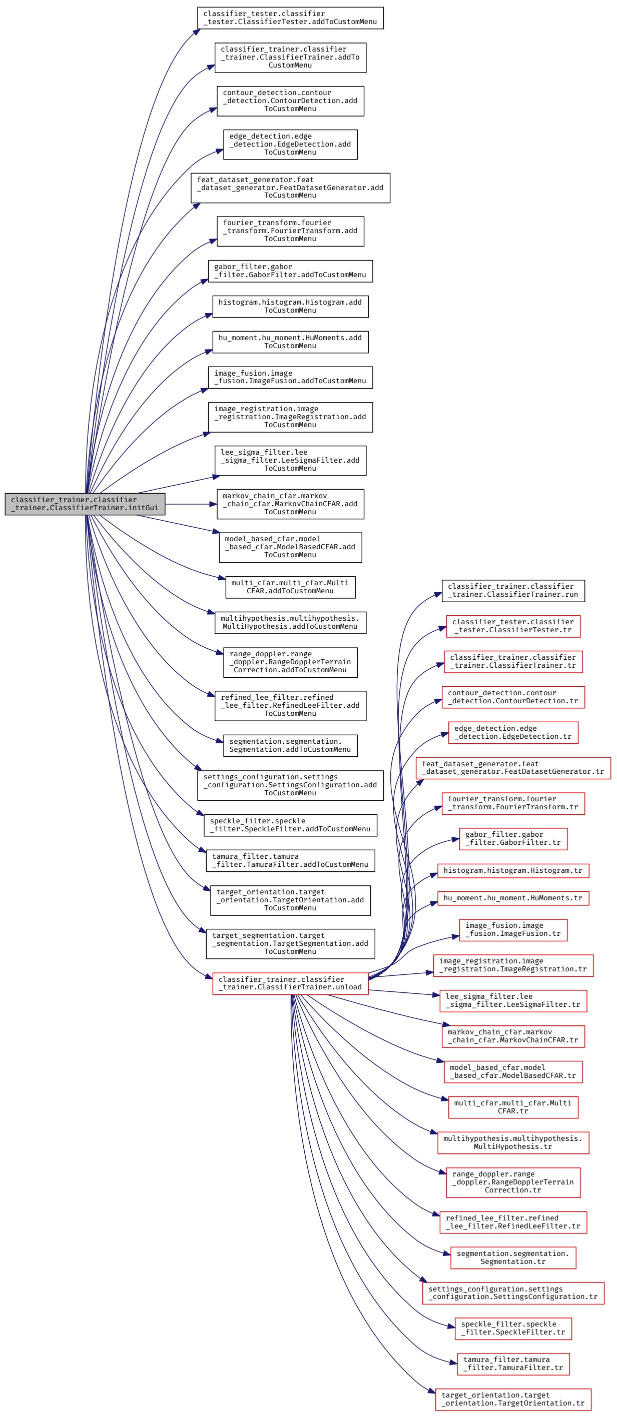
```
def classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu (
              self )
```

6.2.3.3 initGui()

```
def classifier_trainer.classifier_trainer.ClassifierTrainer.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


classifier_trainer.classifier_trainer.ClassifierTrainer.initGui
classifier_tester.classifier_tester.ClassifierTester.addToCustomMenu
classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu
contour_detection.contour_detection.ContourDetection.addToCustomMenu
edge_detection.edge_detection.EdgeDetection.addToCustomMenu
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.addToCustomMenu
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu
histogram.histogram.Histogram.addToCustomMenu
hu_moment.hu_moment.HuMoments.addToCustomMenu
image_fusion.image_fusion.ImageFusion.addToCustomMenu
image_registration.image_registration.ImageRegistration.addToCustomMenu
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu
model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu
multi_cfar.multi_cfar.MultiCFAR.addToCustomMenu
multihypothesis.multihypothesis.MultiHypothesis.addToCustomMenu
range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu
segmentation.segmentation.Segmentation.addToCustomMenu
settings_configuration.settings_configuration.SettingsConfiguration.addToCustomMenu
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu
tamura_filter.tamura_filter.TamuraFilter.addToCustomMenu
target_orientation.target_orientation.TargetOrientation.addToCustomMenu
target_segmentation.target_segmentation.TargetSegmentation.addToCustomMenu
classifier_trainer.classifier_trainer.ClassifierTrainer.unload
classifier_trainer.classifier_trainer.ClassifierTrainer.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr

6.2.3.4 run()

```
def classifier_trainer.classifier_trainer.ClassifierTrainer.run (
                self )
```

Run method that performs all the real work.

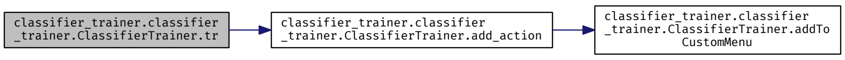
6.2.3.5 tr()

```
def classifier_trainer.classifier_trainer.ClassifierTrainer.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

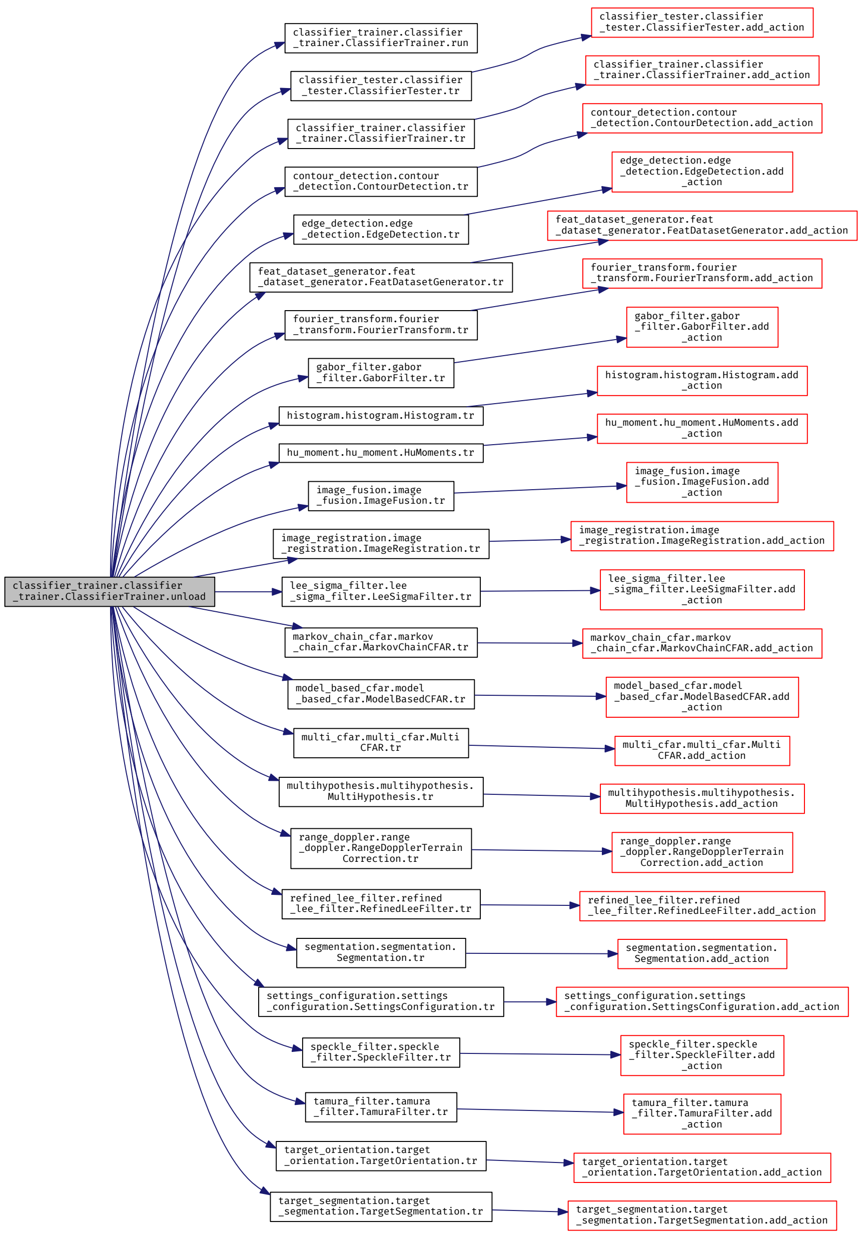

classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu

6.2.3.6 unload()

```
def classifier_trainer.classifier_trainer.ClassifierTrainer.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


classifier_trainer.classifier_trainer.ClassifierTrainer.unload
classifier_trainer.classifier_trainer.ClassifierTrainer.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.add_action

6.2.4 Member Data Documentation

6.2.4.1 action

```
classifier_trainer.classifier_trainer.ClassifierTrainer.action
```

6.2.4.2 actions

```
classifier_trainer.classifier_trainer.ClassifierTrainer.actions
```

6.2.4.3 arguments

```
classifier_trainer.classifier_trainer.ClassifierTrainer.arguments
```

6.2.4.4 dlg

```
classifier_trainer.classifier_trainer.ClassifierTrainer.dlg
```

6.2.4.5 first_start

```
classifier_trainer.classifier_trainer.ClassifierTrainer.first_start
```

6.2.4.6 iface

```
classifier_trainer.classifier_trainer.ClassifierTrainer.iface
```

6.2.4.7 menu

```
classifier_trainer.classifier_trainer.ClassifierTrainer.menu
```

6.2.4.8 output_dialog

```
classifier_trainer.classifier_trainer.ClassifierTrainer.output_dialog
```

6.2.4.9 plugin_dir

```
classifier_trainer.classifier_trainer.ClassifierTrainer.plugin_dir
```

6.2.4.10 subMenu

```
classifier_trainer.classifier_trainer.ClassifierTrainer.subMenu
```

6.2.4.11 translator

```
classifier_trainer.classifier_trainer.ClassifierTrainer.translator
```

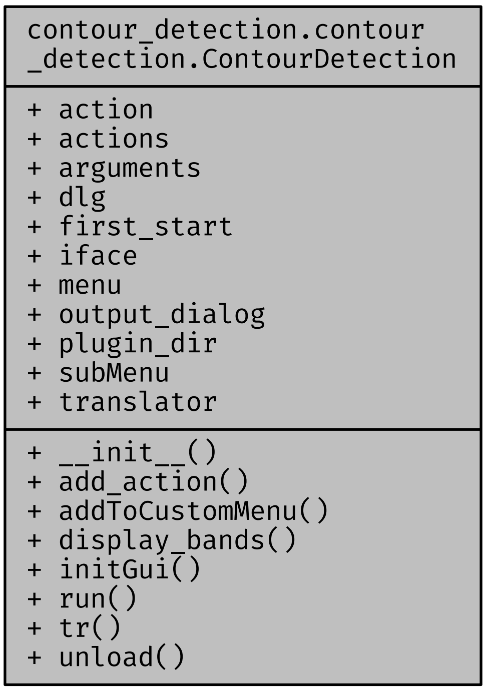
The documentation for this class was generated from the following file:

- classifier_trainer.py

6.3 contour_detection.contour_detection.ContourDetection Class Reference

QGIS Plugin Implementation.

Collaboration diagram for contour_detection.contour_detection.ContourDetection:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def display_bands (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.3.1 Detailed Description

QGIS Plugin Implementation.

6.3.2 Constructor & Destructor Documentation

6.3.2.1 __init__()

```
def contour_detection.contour_detection.ContourDetection.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.3.3 Member Function Documentation

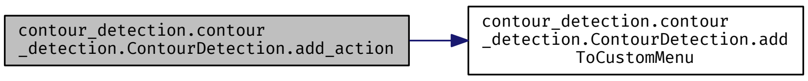
6.3.3.1 add_action()

```
def contour_detection.contour_detection.ContourDetection.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


contour_detection.contour
_detection.ContourDetection.add_action
contour_detection.contour
_detection.ContourDetection.add
ToCustomMenu

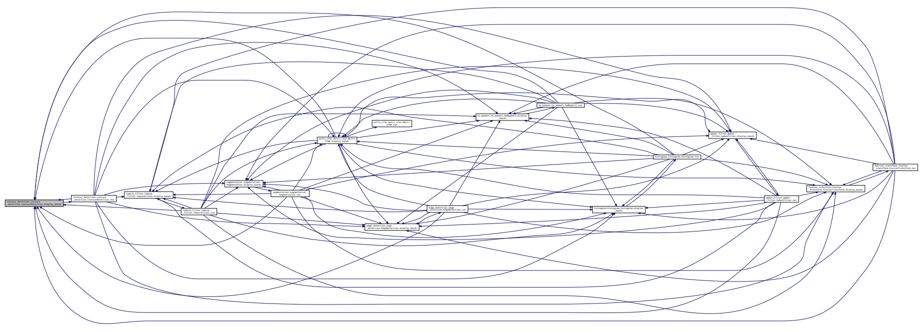
6.3.3.2 addToCustomMenu()

```
def contour_detection.contour_detection.ContourDetection.addToCustomMenu (
              self )
```

6.3.3.3 display_bands()

```
def contour_detection.contour_detection.ContourDetection.display_bands (
              self )
```

Here is the call graph for this function:

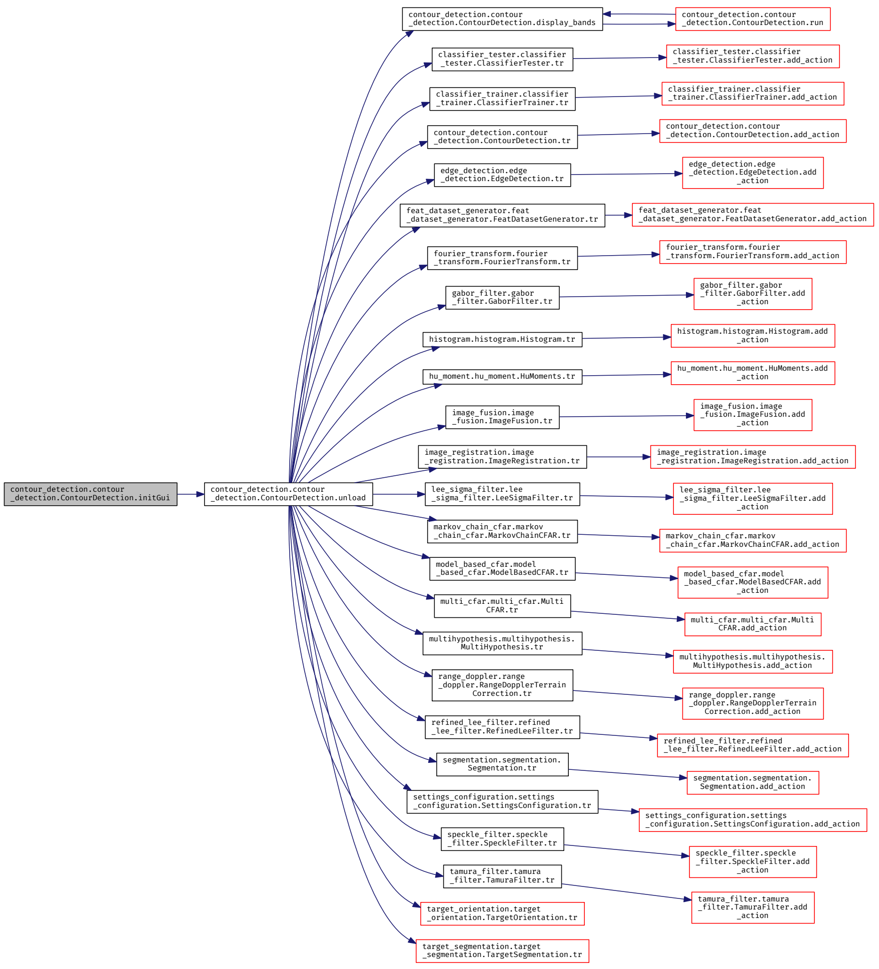


6.3.3.4 initGui()

```
def contour_detection.contour_detection.ContourDetection.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:

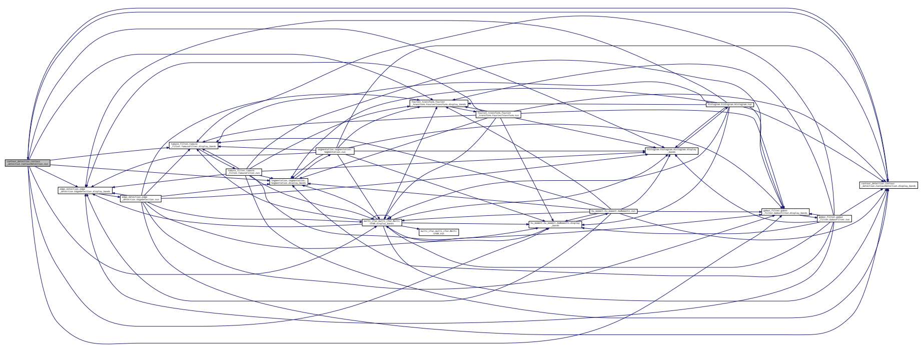

contour_detection.contour _detection.ContourDetection.initGui
contour_detection.contour _detection.ContourDetection.unload
contour_detection.contour _detection.ContourDetection.display_bands
contour_detection.contour _detection.ContourDetection.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.tr
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.tr
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.tr
target_segmentation.target _segmentation.TargetSegmentation.tr

6.3.3.5 run()

```
def contour_detection.contour_detection.ContourDetection.run (
              self )
```

Run method that performs all the real work.

Here is the call graph for this function:



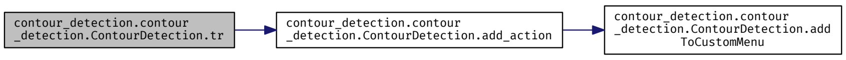
6.3.3.6 tr()

```
def contour_detection.contour_detection.ContourDetection.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

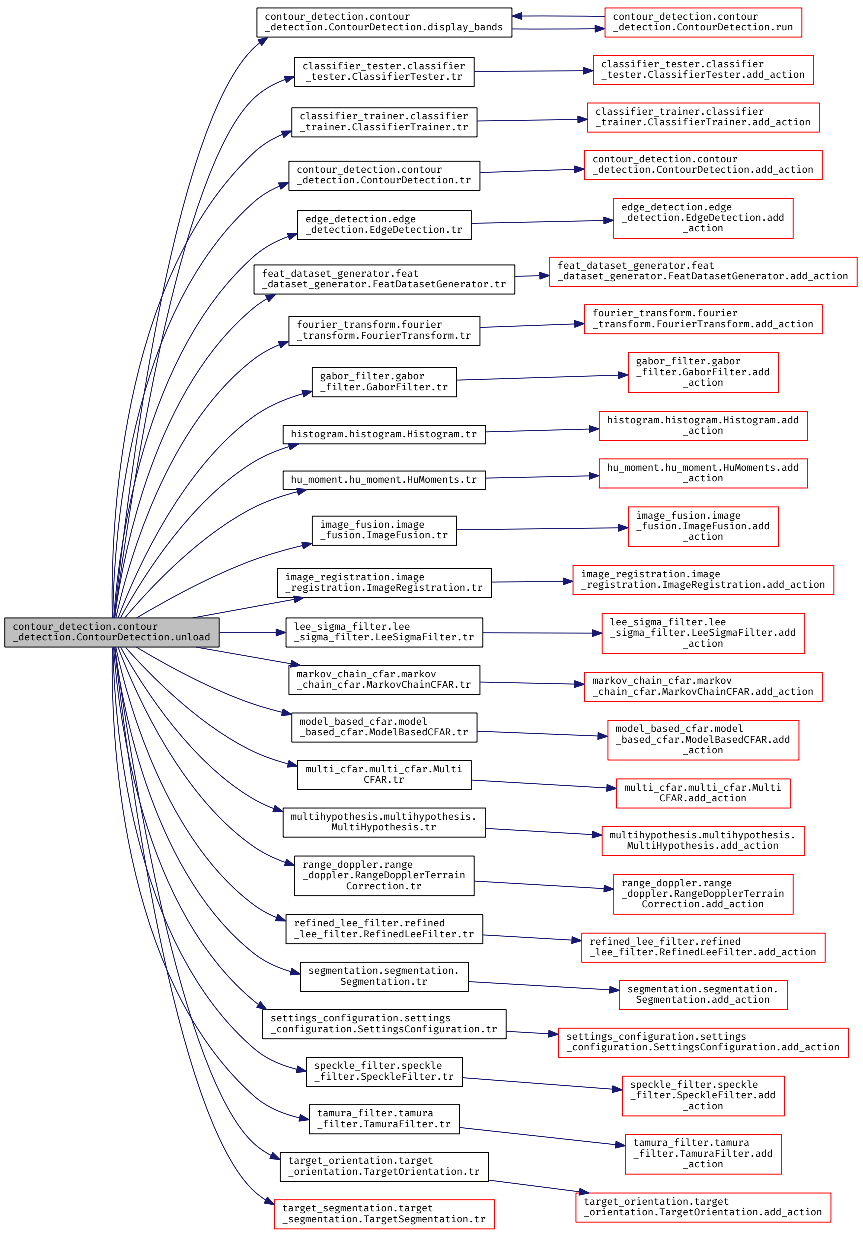

contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
contour_detection.contour _detection.ContourDetection.add ToCustomMenu

6.3.3.7 unload()

```
def contour_detection.contour_detection.ContourDetection.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


contour_detection.contour _detection.ContourDetection.display_bands
contour_detection.contour _detection.ContourDetection.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
contour_detection.contour _detection.ContourDetection.unload
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.tr
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.tr
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.tr
target_orientation.target _orientation.TargetOrientation.add_action
target_segmentation.target _segmentation.TargetSegmentation.tr

6.3.4 Member Data Documentation

6.3.4.1 action

`contour_detection.contour_detection.ContourDetection.action`

6.3.4.2 actions

```
contour_detection.contour_detection.ContourDetection.actions
```

6.3.4.3 arguments

```
contour_detection.contour_detection.ContourDetection.arguments
```

6.3.4.4 dlg

```
contour_detection.contour_detection.ContourDetection.dlg
```

6.3.4.5 first_start

```
contour_detection.contour_detection.ContourDetection.first_start
```

6.3.4.6 iface

```
contour_detection.contour_detection.ContourDetection.iface
```

6.3.4.7 menu

```
contour_detection.contour_detection.ContourDetection.menu
```

6.3.4.8 output_dialog

```
contour_detection.contour_detection.ContourDetection.output_dialog
```

6.3.4.9 plugin_dir

```
contour_detection.contour_detection.ContourDetection.plugin_dir
```

6.3.4.10 subMenu

```
contour_detection.contour_detection.ContourDetection.subMenu
```

6.3.4.11 translator

```
contour_detection.contour_detection.ContourDetection.translator
```

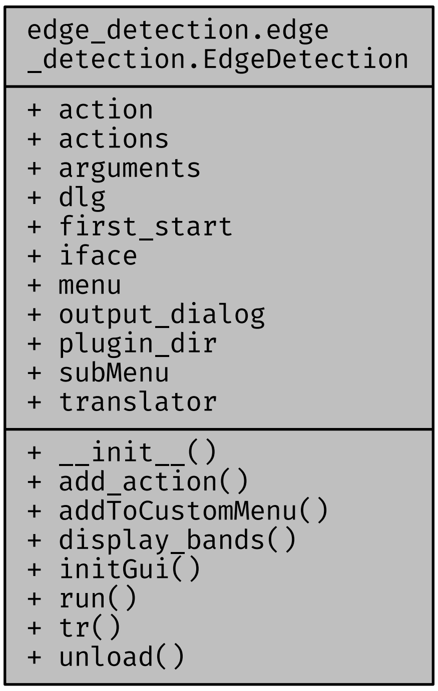
The documentation for this class was generated from the following file:

- contour_detection.py

6.4 edge_detection.edge_detection.EdgeDetection Class Reference

QGIS Plugin Implementation.

Collaboration diagram for edge_detection.edge_detection.EdgeDetection:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def display_bands (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.4.1 Detailed Description

QGIS Plugin Implementation.

6.4.2 Constructor & Destructor Documentation

6.4.2.1 __init__()

```
def edge_detection.edge_detection.EdgeDetection.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.4.3 Member Function Documentation

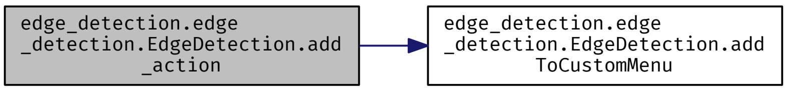
6.4.3.1 add_action()

```
def edge_detection.edge_detection.EdgeDetection.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


edge_detection.edge _detection.EdgeDetection.add _action
edge_detection.edge _detection.EdgeDetection.add ToCustomMenu

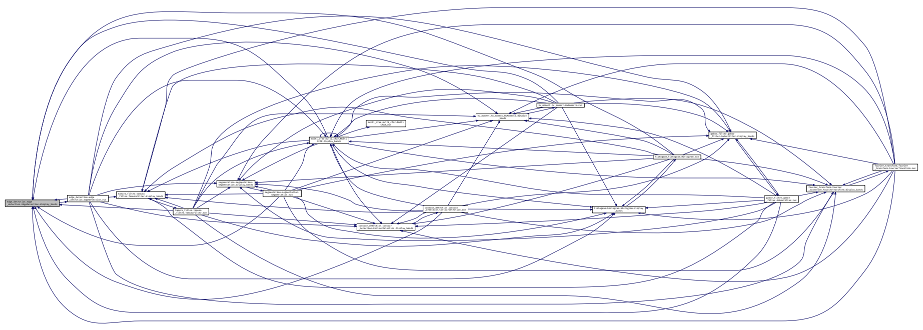
6.4.3.2 addToCustomMenu()

```
def edge_detection.edge_detection.EdgeDetection.addToCustomMenu (
              self )
```

6.4.3.3 display_bands()

```
def edge_detection.edge_detection.EdgeDetection.display_bands (
              self )
```

Here is the call graph for this function:

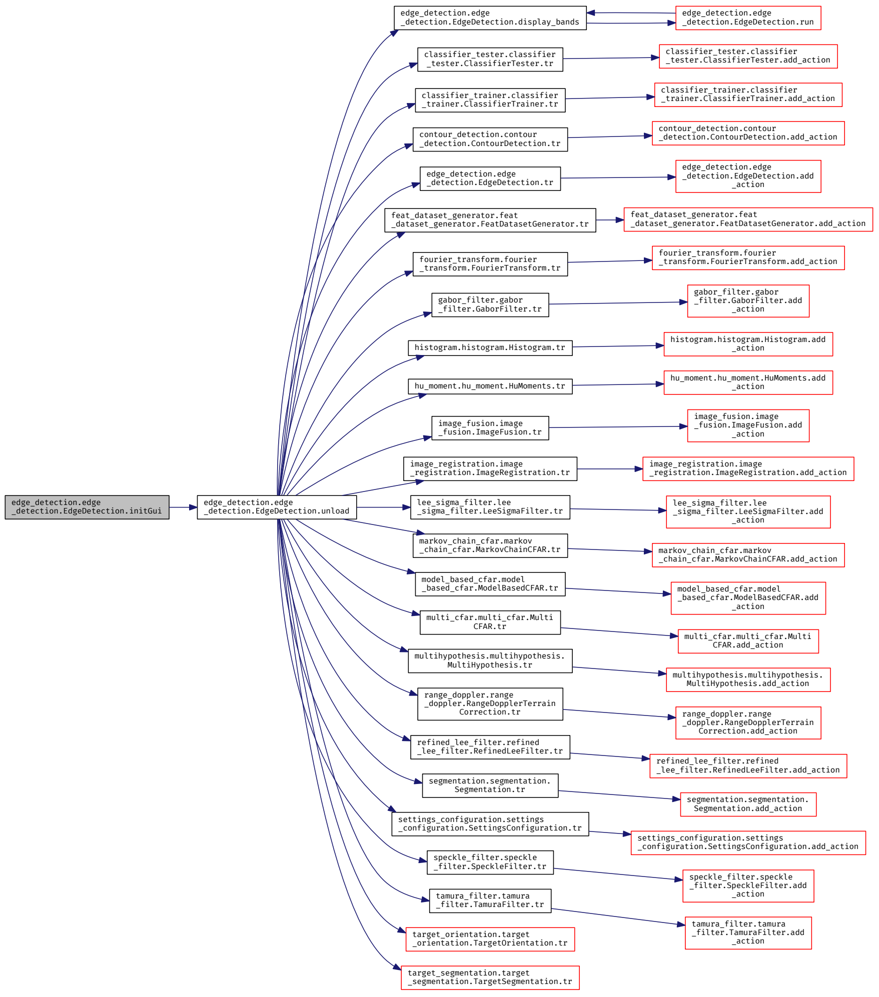


6.4.3.4 initGui()

```
def edge_detection.edge_detection.EdgeDetection.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:

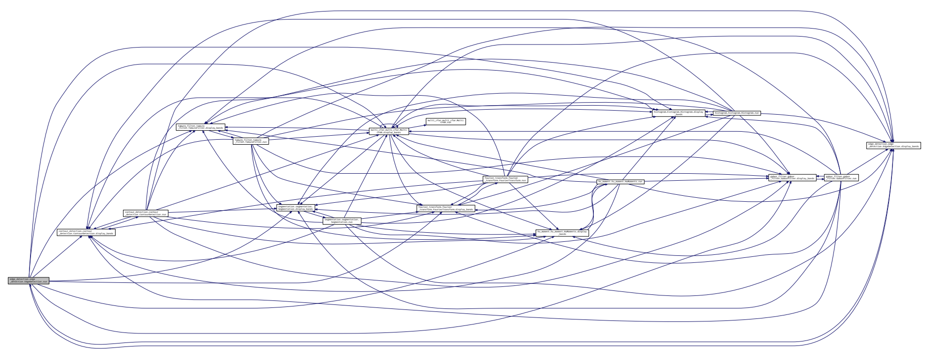


6.4.3.5 run()

```
def edge_detection.edge_detection.EdgeDetection.run (
                self )
```

Run method that performs all the real work.

Here is the call graph for this function:



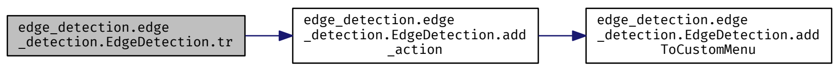
6.4.3.6 tr()

```
def edge_detection.edge_detection.EdgeDetection.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

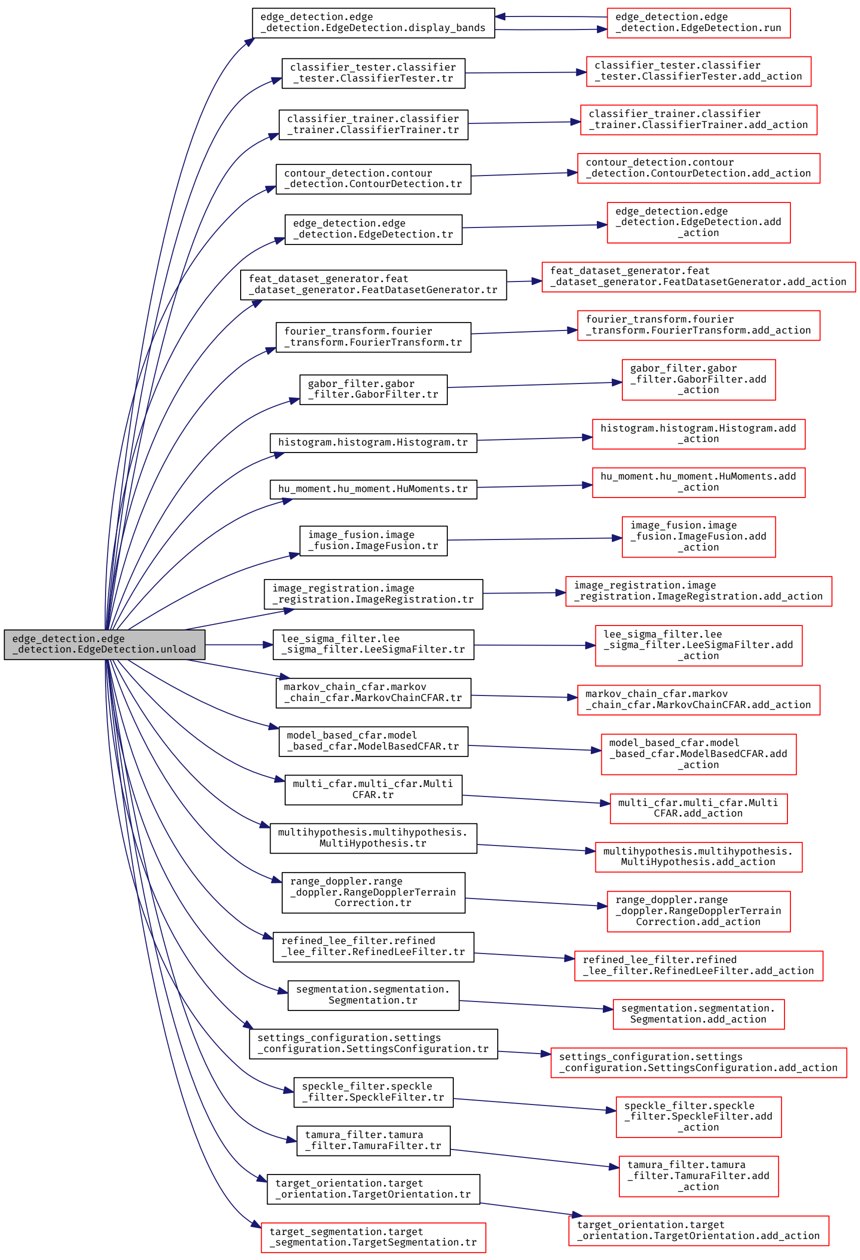

edge_detection.edge
_detection.EdgeDetection.tr
edge_detection.edge
_detection.EdgeDetection.add
_action
edge_detection.edge
_detection.EdgeDetection.add
ToCustomMenu

6.4.3.7 unload()

```
def edge_detection.edge_detection.EdgeDetection.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


edge_detection.edge_detection.EdgeDetection.unload
edge_detection.edge_detection.EdgeDetection.display_bands
edge_detection.edge_detection.EdgeDetection.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.tr

6.4.4 Member Data Documentation

6.4.4.1 action

```
edge_detection.edge_detection.EdgeDetection.action
```

6.4.4.2 actions

`edge_detection.edge_detection.EdgeDetection.actions`

6.4.4.3 arguments

`edge_detection.edge_detection.EdgeDetection.arguments`

6.4.4.4 dlg

`edge_detection.edge_detection.EdgeDetection.dlg`

6.4.4.5 first_start

`edge_detection.edge_detection.EdgeDetection.first_start`

6.4.4.6 iface

`edge_detection.edge_detection.EdgeDetection.iface`

6.4.4.7 menu

`edge_detection.edge_detection.EdgeDetection.menu`

6.4.4.8 output_dialog

`edge_detection.edge_detection.EdgeDetection.output_dialog`

6.4.4.9 plugin_dir

`edge_detection.edge_detection.EdgeDetection.plugin_dir`

6.4.4.10 subMenu

```
edge_detection.edge_detection.EdgeDetection.subMenu
```

6.4.4.11 translator

```
edge_detection.edge_detection.EdgeDetection.translator
```

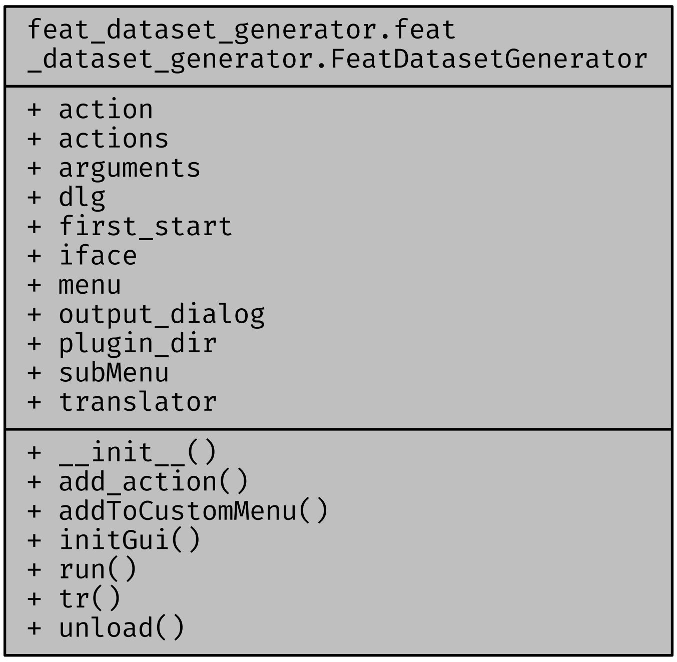
The documentation for this class was generated from the following file:

- edge_detection.py

6.5 feat_dataset_generator.feat_dataset_generator.FeatDataset↩ Generator Class Reference

QGIS Plugin Implementation.

Collaboration diagram for feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.5.1 Detailed Description

QGIS Plugin Implementation.

6.5.2 Constructor & Destructor Documentation

6.5.2.1 __init__()

```
def feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.5.3 Member Function Documentation

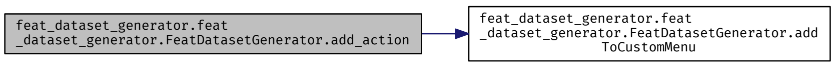
6.5.3.1 add_action()

```
def feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


feat_dataset_generator.feat
_dataset_generator.FeatDatasetGenerator.add_action
feat_dataset_generator.feat
_dataset_generator.FeatDatasetGenerator.add
ToCustomMenu

6.5.3.2 addToCustomMenu()

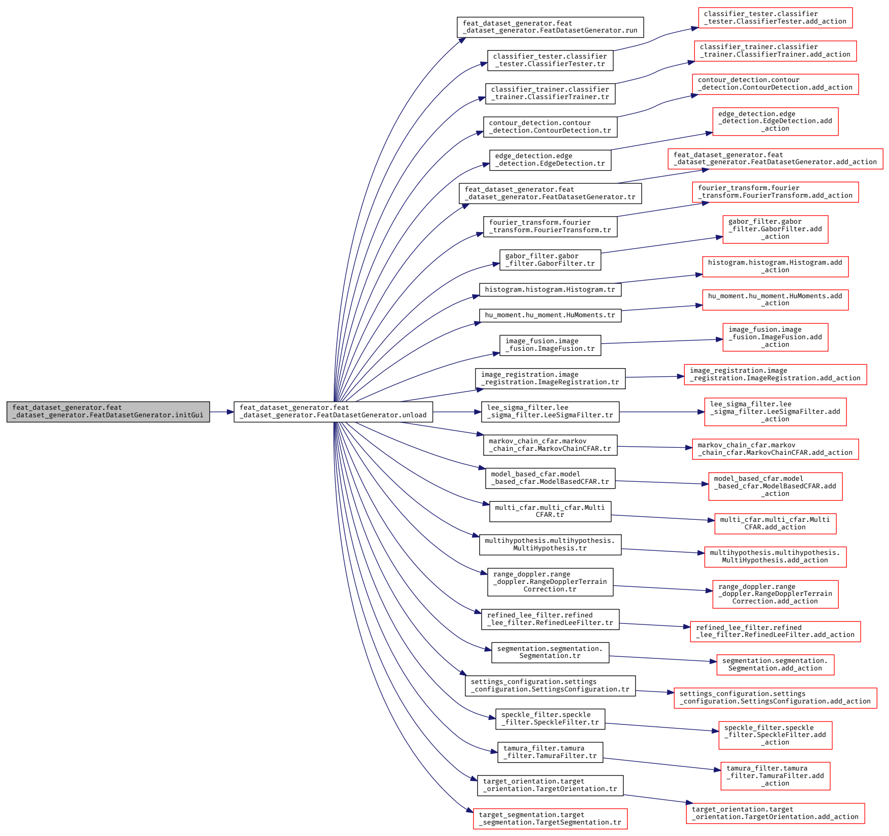
```
def feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.addToCustomMenu (
              self )
```

6.5.3.3 initGui()

```
def feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.initGui
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.unload
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
contour_detection.contour _detection.ContourDetection.tr
edge_detection.edge _detection.EdgeDetection.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier _transform.FourierTransform.tr
gabor_filter.gabor _filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image _fusion.ImageFusion.tr
image_registration.image _registration.ImageRegistration.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.Multi CFAR.tr
multihypothesis.multihypothesis. MultiHypothesis.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
segmentation.segmentation. Segmentation.tr
settings_configuration.settings _configuration.SettingsConfiguration.tr
speckle_filter.speckle _filter.SpeckleFilter.tr
tamura_filter.tamura _filter.TamuraFilter.tr
target_orientation.target _orientation.TargetOrientation.tr
target_segmentation.target _segmentation.TargetSegmentation.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.add_action

6.5.3.4 run()

```
def feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.run (
              self )
```

Run method that performs all the real work.

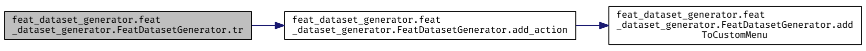
6.5.3.5 tr()

```
def feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

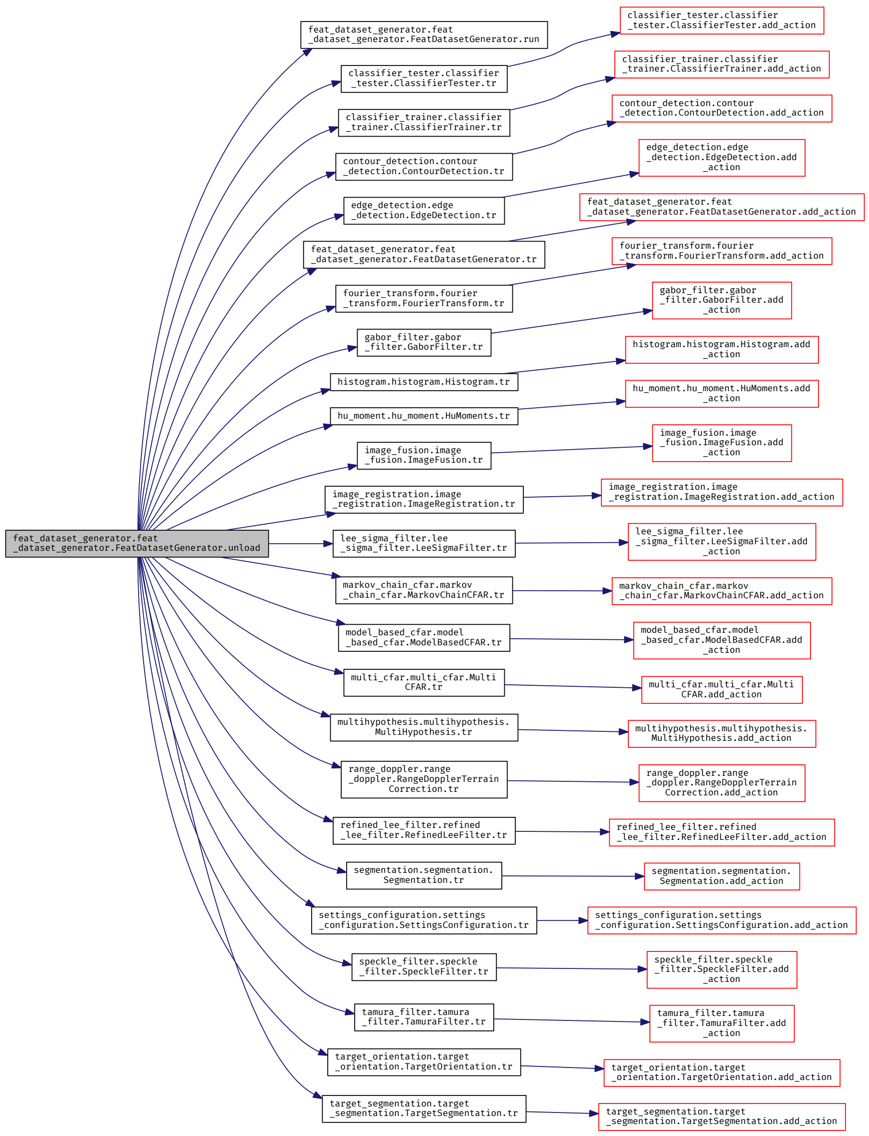

feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add ToCustomMenu

6.5.3.6 unload()

```
def feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.unload
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.Multi CFAR.tr
multihypothesis.multihypothesis. MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrain Correction.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation. Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.add_action

6.5.4 Member Data Documentation

6.5.4.1 action

```
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.action
```

6.5.4.2 actions

```
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.actions
```

6.5.4.3 arguments

`feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.arguments`

6.5.4.4 dlg

`feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.dlg`

6.5.4.5 first_start

`feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.first_start`

6.5.4.6 iface

`feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.iface`

6.5.4.7 menu

`feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.menu`

6.5.4.8 output_dialog

`feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.output_dialog`

6.5.4.9 plugin_dir

`feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.plugin_dir`

6.5.4.10 subMenu

`feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.subMenu`

6.5.4.11 translator

```
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.translator
```

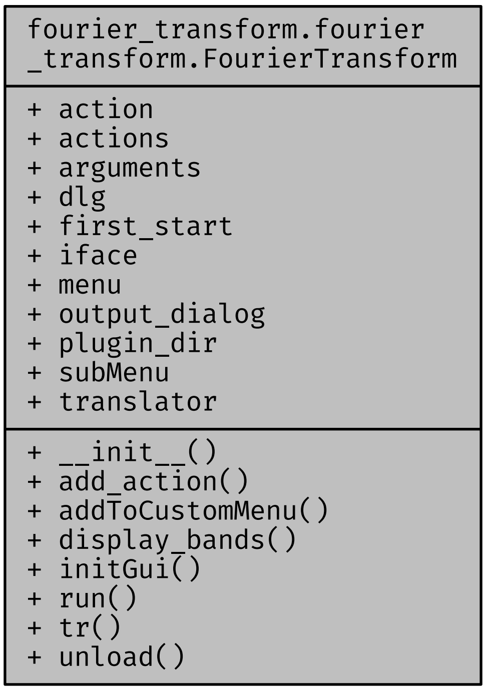
The documentation for this class was generated from the following file:

- feat_dataset_generator.py

6.6 fourier_transform.fourier_transform.FourierTransform Class Reference

QGIS Plugin Implementation.

Collaboration diagram for fourier_transform.fourier_transform.FourierTransform:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.

- def addToCustomMenu (self)
- def display_bands (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.6.1 Detailed Description

QGIS Plugin Implementation.

6.6.2 Constructor & Destructor Documentation

6.6.2.1 __init__()

```
def fourier_transform.fourier_transform.FourierTransform.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.6.3 Member Function Documentation

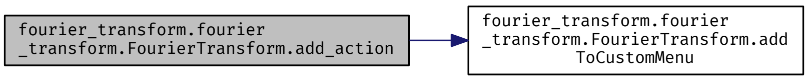
6.6.3.1 add_action()

```
def fourier_transform.fourier_transform.FourierTransform.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


fourier_transform.fourier_transform.FourierTransform.add_action
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu

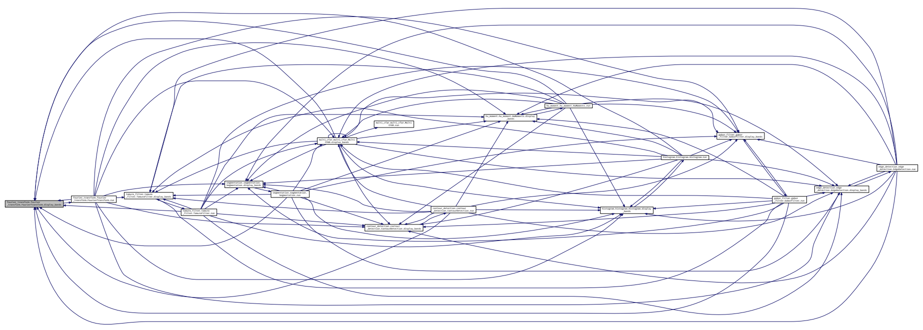
6.6.3.2 addToCustomMenu()

```
def fourier_transform.fourier_transform.FourierTransform.addToCustomMenu (
              self )
```

6.6.3.3 display_bands()

```
def fourier_transform.fourier_transform.FourierTransform.display_bands (
              self )
```

Here is the call graph for this function:

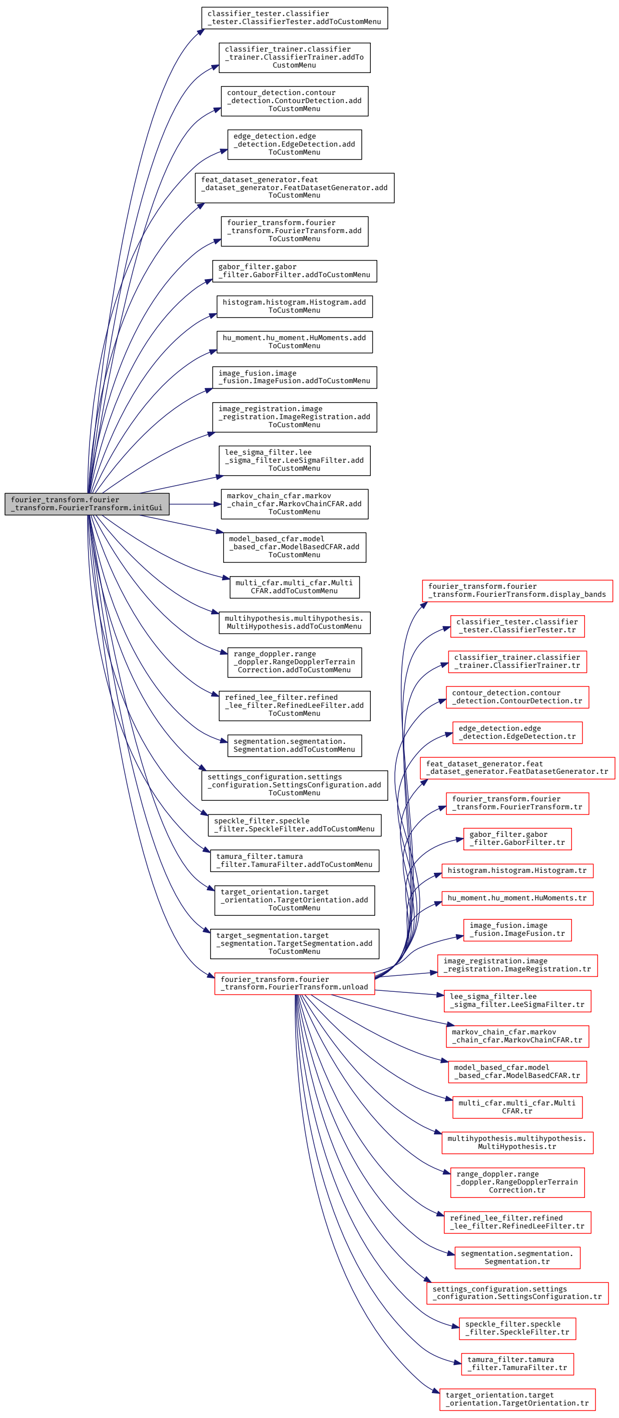


6.6.3.4 initGui()

```
def fourier_transform.fourier_transform.FourierTransform.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:

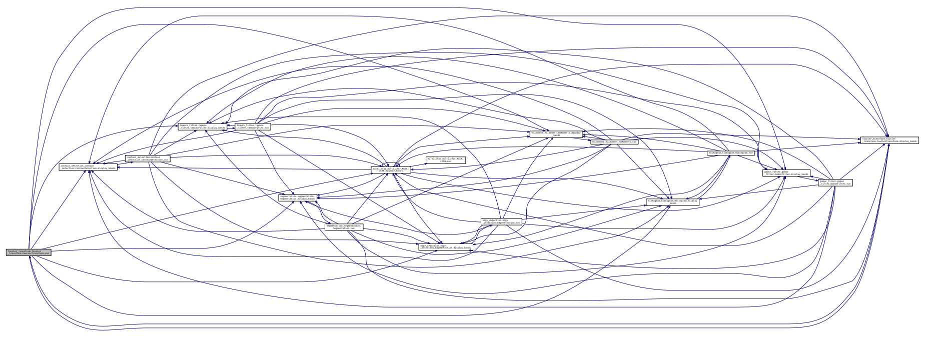

fourier_transform.fourier_transform.FourierTransform.initGui
classifier_tester.classifier_tester.ClassifierTester.addToCustomMenu
classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu
contour_detection.contour_detection.ContourDetection.addToCustomMenu
edge_detection.edge_detection.EdgeDetection.addToCustomMenu
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.addToCustomMenu
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu
histogram.histogram.Histogram.addToCustomMenu
hu_moment.hu_moment.HuMoments.addToCustomMenu
image_fusion.image_fusion.ImageFusion.addToCustomMenu
image_registration.image_registration.ImageRegistration.addToCustomMenu
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu
model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu
multi_cfar.multi_cfar.MultiCFAR.addToCustomMenu
multihypothesis.multihypothesis.MultiHypothesis.addToCustomMenu
range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu
segmentation.segmentation.Segmentation.addToCustomMenu
settings_configuration.settings_configuration.SettingsConfiguration.addToCustomMenu
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu
tamura_filter.tamura_filter.TamuraFilter.addToCustomMenu
target_orientation.target_orientation.TargetOrientation.addToCustomMenu
target_segmentation.target_segmentation.TargetSegmentation.addToCustomMenu
fourier_transform.fourier_transform.FourierTransform.unload
fourier_transform.fourier_transform.FourierTransform.display_bands
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr

6.6.3.5 run()

```
def fourier_transform.fourier_transform.FourierTransform.run (
              self )
```

Run method that performs all the real work.

Here is the call graph for this function:



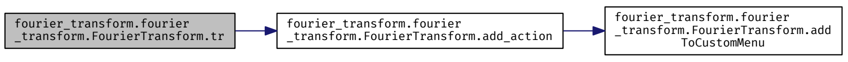
6.6.3.6 tr()

```
def fourier_transform.fourier_transform.FourierTransform.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

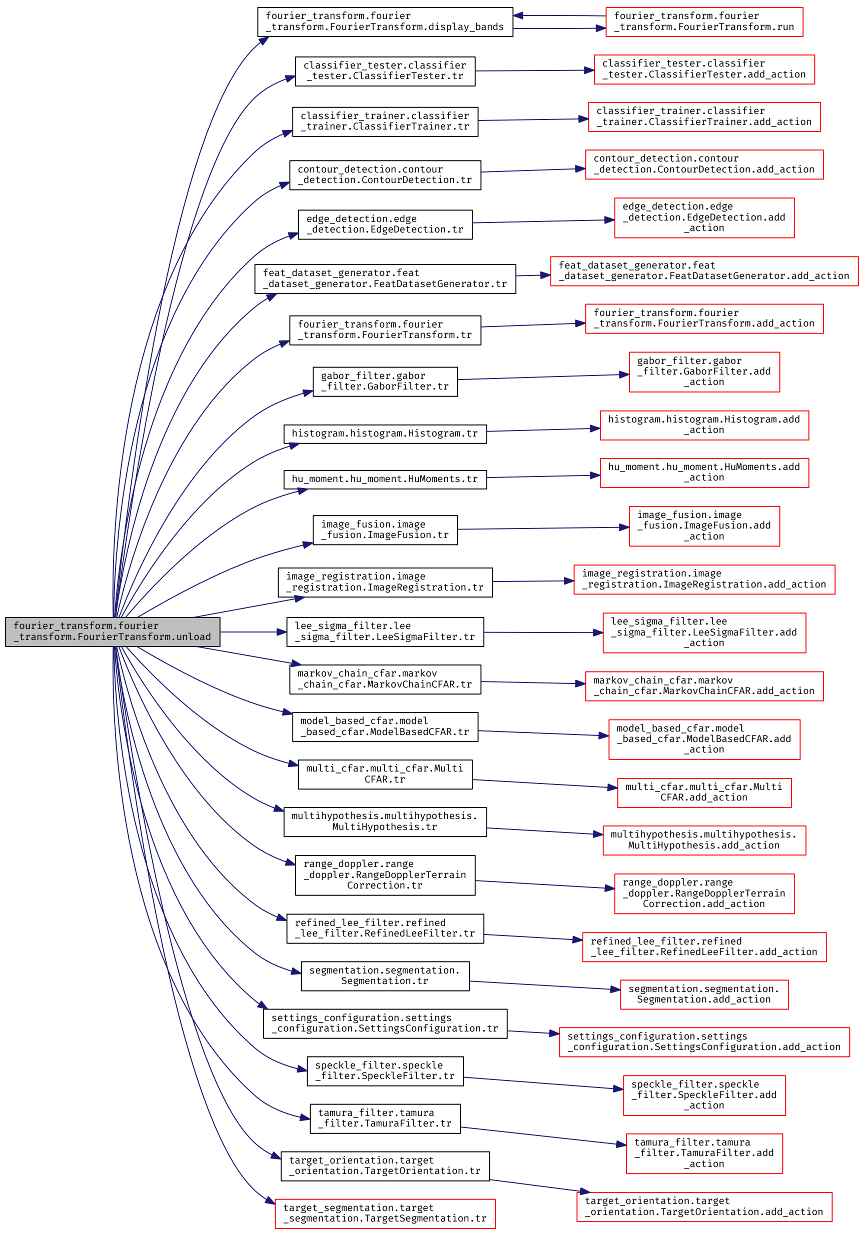

fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu

6.6.3.7 unload()

```
def fourier_transform.fourier_transform.FourierTransform.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


fourier_transform.fourier _transform.FourierTransform.unload
fourier_transform.fourier _transform.FourierTransform.display_bands
fourier_transform.fourier _transform.FourierTransform.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.tr
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.tr
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.tr
target_orientation.target _orientation.TargetOrientation.add_action
target_segmentation.target _segmentation.TargetSegmentation.tr

6.6.4 Member Data Documentation

6.6.4.1 action

```
fourier_transform.fourier_transform.FourierTransform.action
```

6.6.4.2 actions

```
fourier_transform.fourier_transform.FourierTransform.actions
```

6.6.4.3 arguments

```
fourier_transform.fourier_transform.FourierTransform.arguments
```

6.6.4.4 dlg

```
fourier_transform.fourier_transform.FourierTransform.dlg
```

6.6.4.5 first_start

```
fourier_transform.fourier_transform.FourierTransform.first_start
```

6.6.4.6 iface

```
fourier_transform.fourier_transform.FourierTransform.iface
```

6.6.4.7 menu

```
fourier_transform.fourier_transform.FourierTransform.menu
```

6.6.4.8 output_dialog

```
fourier_transform.fourier_transform.FourierTransform.output_dialog
```

6.6.4.9 plugin_dir

```
fourier_transform.fourier_transform.FourierTransform.plugin_dir
```

6.6.4.10 subMenu

```
fourier_transform.fourier_transform.FourierTransform.subMenu
```

6.6.4.11 translator

```
fourier_transform.fourier_transform.FourierTransform.translator
```

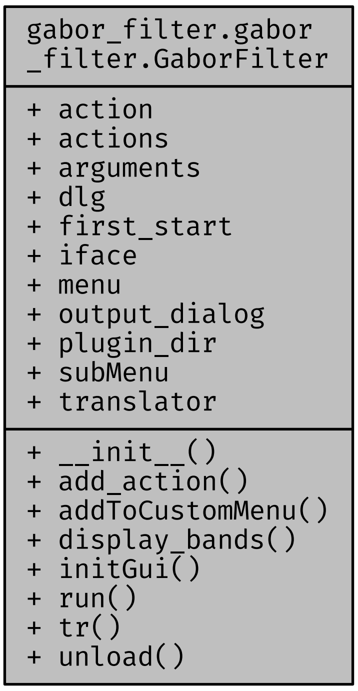
The documentation for this class was generated from the following file:

- fourier_transform.py

6.7 gabor_filter.gabor_filter.GaborFilter Class Reference

QGIS Plugin Implementation.

Collaboration diagram for gabor_filter.gabor_filter.GaborFilter:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def display_bands (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.7.1 Detailed Description

QGIS Plugin Implementation.

6.7.2 Constructor & Destructor Documentation

6.7.2.1 __init__()

```
def gabor_filter.gabor_filter.GaborFilter.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.7.3 Member Function Documentation

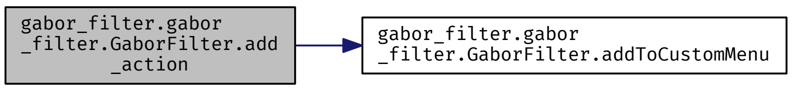
6.7.3.1 add_action()

```
def gabor_filter.gabor_filter.GaborFilter.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


gabor_filter.gabor_filter.GaborFilter.add_action
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu

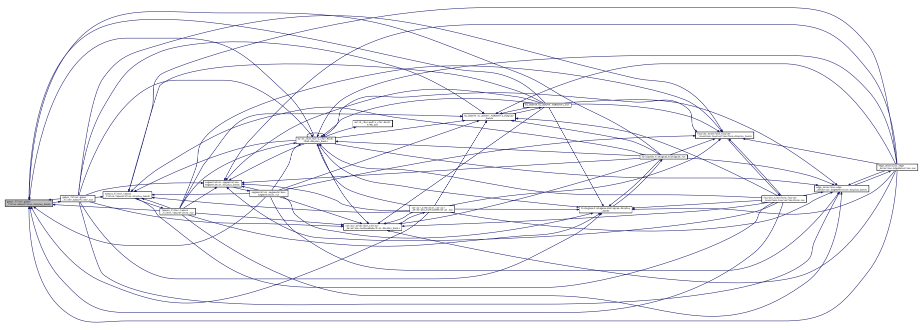
6.7.3.2 addToCustomMenu()

```
def gabor_filter.gabor_filter.GaborFilter.addToCustomMenu (
              self )
```

6.7.3.3 display_bands()

```
def gabor_filter.gabor_filter.GaborFilter.display_bands (
              self )
```

Here is the call graph for this function:

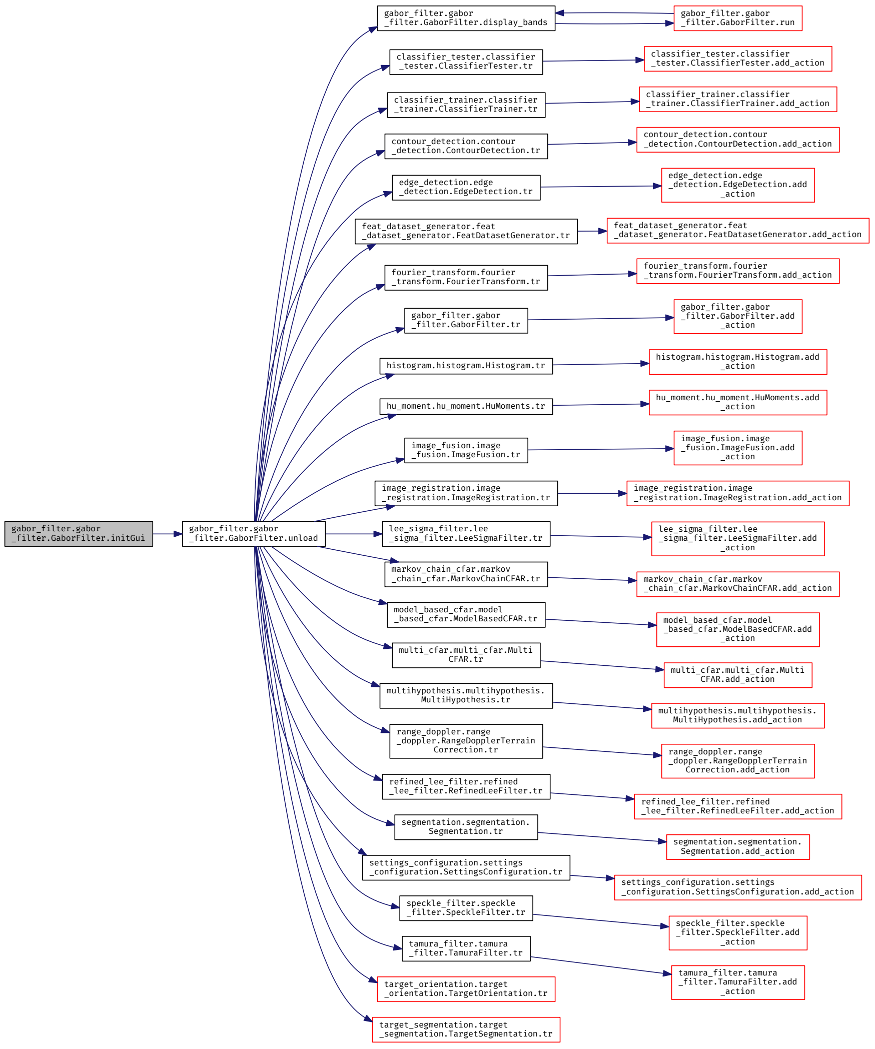


6.7.3.4 initGui()

```
def gabor_filter.gabor_filter.GaborFilter.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:

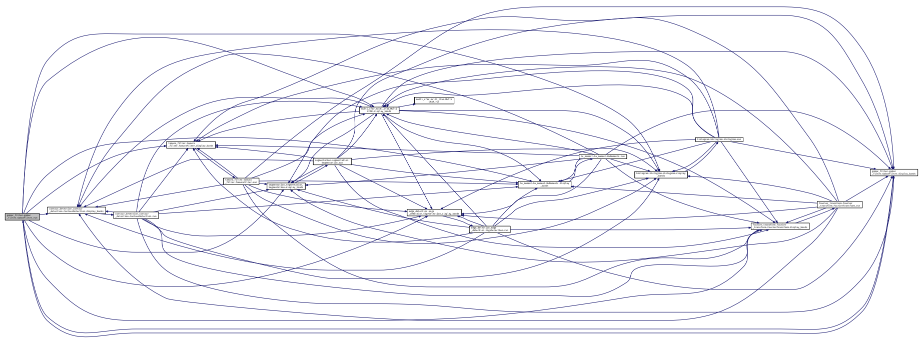

gabor_filter.gabor _filter.GaborFilter.initGui
gabor_filter.gabor _filter.GaborFilter.unload
gabor_filter.gabor _filter.GaborFilter.display_bands
gabor_filter.gabor _filter.GaborFilter.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.tr
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.tr
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.tr
target_segmentation.target _segmentation.TargetSegmentation.tr

6.7.3.5 run()

```
def gabor_filter.gabor_filter.GaborFilter.run (
              self )
```

Run method that performs all the real work.

Here is the call graph for this function:



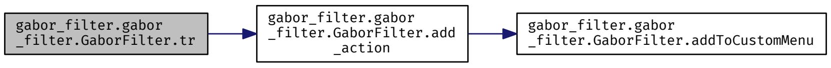
6.7.3.6 tr()

```
def gabor_filter.gabor_filter.GaborFilter.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

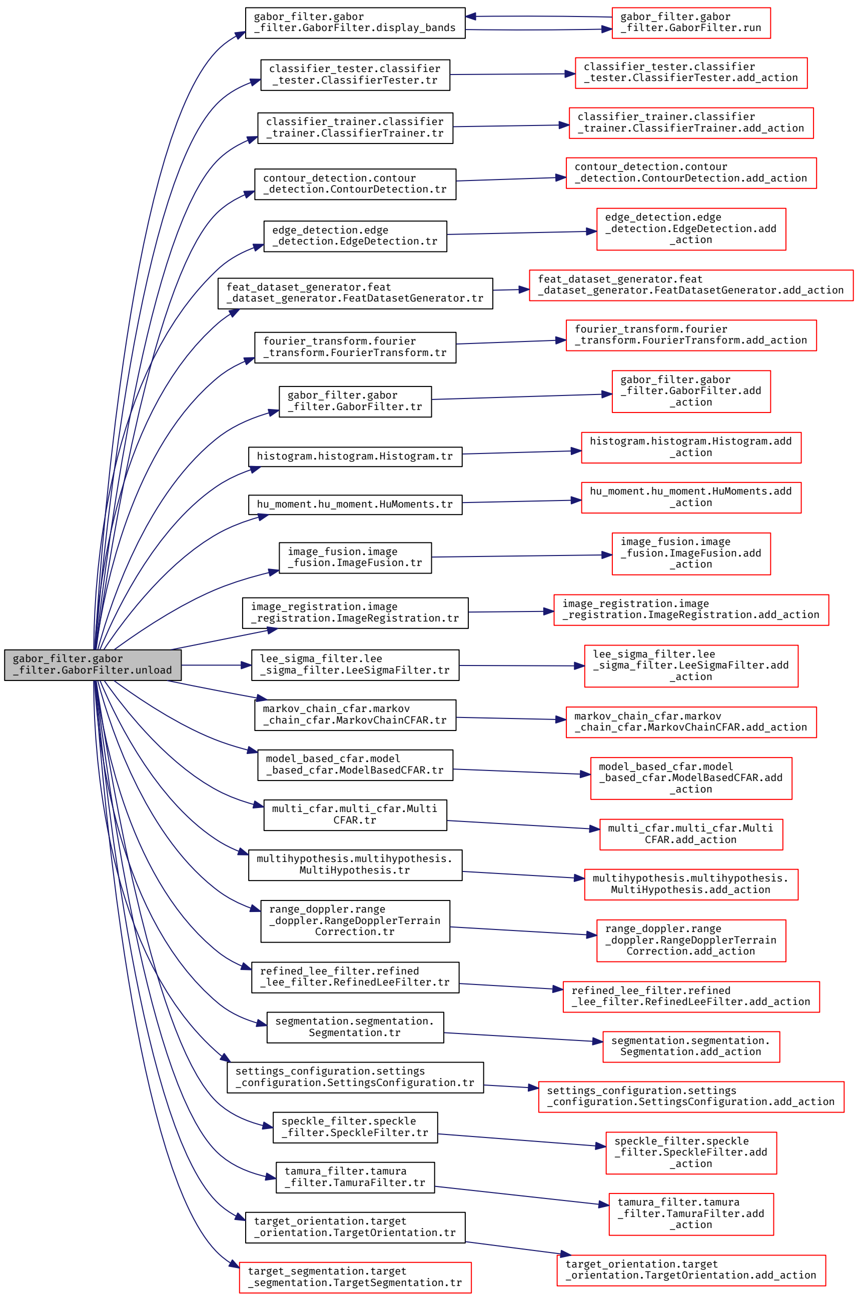

gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu

6.7.3.7 unload()

```
def gabor_filter.gabor_filter.GaborFilter.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


gabor_filter.gabor_filter.GaborFilter.unload
gabor_filter.gabor_filter.GaborFilter.display_bands
gabor_filter.gabor_filter.GaborFilter.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.tr

6.7.4 Member Data Documentation

6.7.4.1 action

`gabor_filter.gabor_filter.GaborFilter.action`

6.7.4.2 actions

```
gabor_filter.gabor_filter.GaborFilter.actions
```

6.7.4.3 arguments

```
gabor_filter.gabor_filter.GaborFilter.arguments
```

6.7.4.4 dlg

```
gabor_filter.gabor_filter.GaborFilter.dlg
```

6.7.4.5 first_start

```
gabor_filter.gabor_filter.GaborFilter.first_start
```

6.7.4.6 iface

```
gabor_filter.gabor_filter.GaborFilter.iface
```

6.7.4.7 menu

```
gabor_filter.gabor_filter.GaborFilter.menu
```

6.7.4.8 output_dialog

```
gabor_filter.gabor_filter.GaborFilter.output_dialog
```

6.7.4.9 plugin_dir

```
gabor_filter.gabor_filter.GaborFilter.plugin_dir
```

6.7.4.10 subMenu

```
gabor_filter.gabor_filter.GaborFilter.subMenu
```

6.7.4.11 translator

```
gabor_filter.gabor_filter.GaborFilter.translator
```

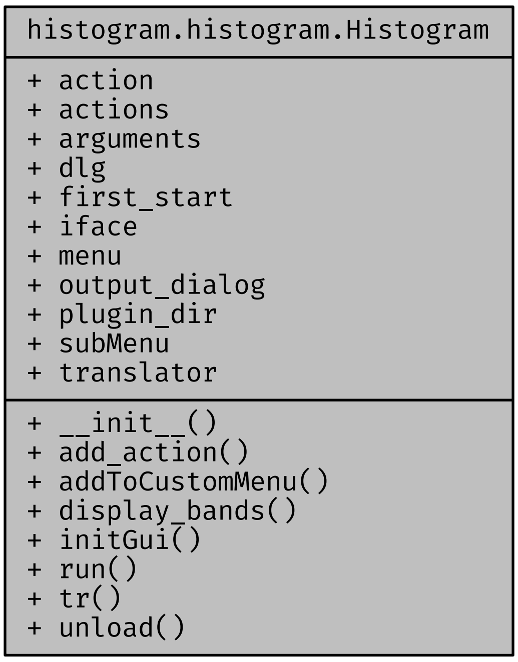
The documentation for this class was generated from the following file:

- gabor_filter.py

6.8 histogram.histogram.Histogram Class Reference

QGIS Plugin Implementation.

Collaboration diagram for histogram.histogram.Histogram:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def display_bands (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.8.1 Detailed Description

QGIS Plugin Implementation.

6.8.2 Constructor & Destructor Documentation

6.8.2.1 __init__()

```
def histogram.histogram.Histogram.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.8.3 Member Function Documentation

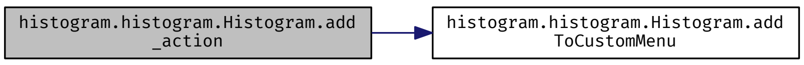
6.8.3.1 add_action()

```
def histogram.histogram.Histogram.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


histogram.histogram.Histogram.add_action
histogram.histogram.Histogram.addToCustomMenu

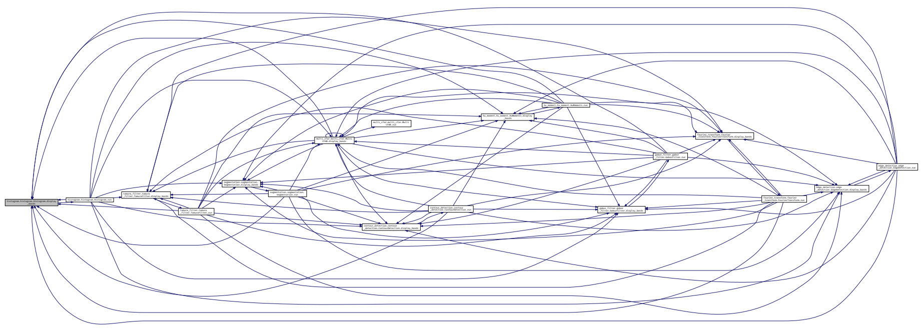
6.8.3.2 addToCustomMenu()

```
def histogram.histogram.Histogram.addToCustomMenu (
              self )
```

6.8.3.3 display_bands()

```
def histogram.histogram.Histogram.display_bands (
              self )
```

Here is the call graph for this function:

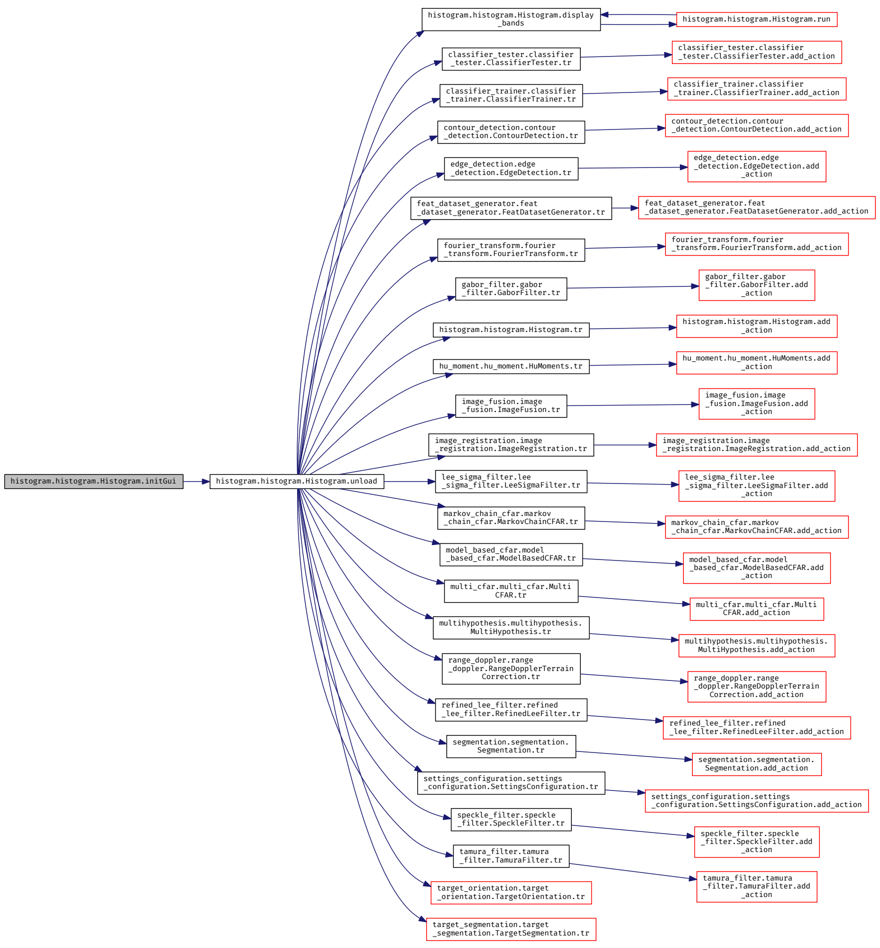


6.8.3.4 initGui()

```
def histogram.histogram.Histogram.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:

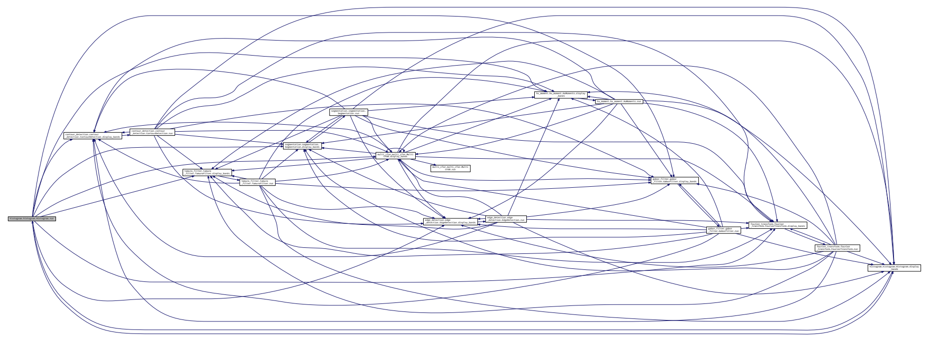

histogram.histogram.Histogram.initGui
histogram.histogram.Histogram.unload
histogram.histogram.Histogram.display_bands
histogram.histogram.Histogram.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr

6.8.3.5 run()

```
def histogram.histogram.Histogram.run (
                self )
```

Run method that performs all the real work.

Here is the call graph for this function:



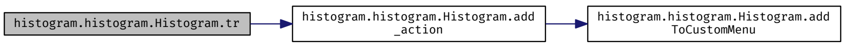
6.8.3.6 tr()

```
def histogram.histogram.Histogram.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

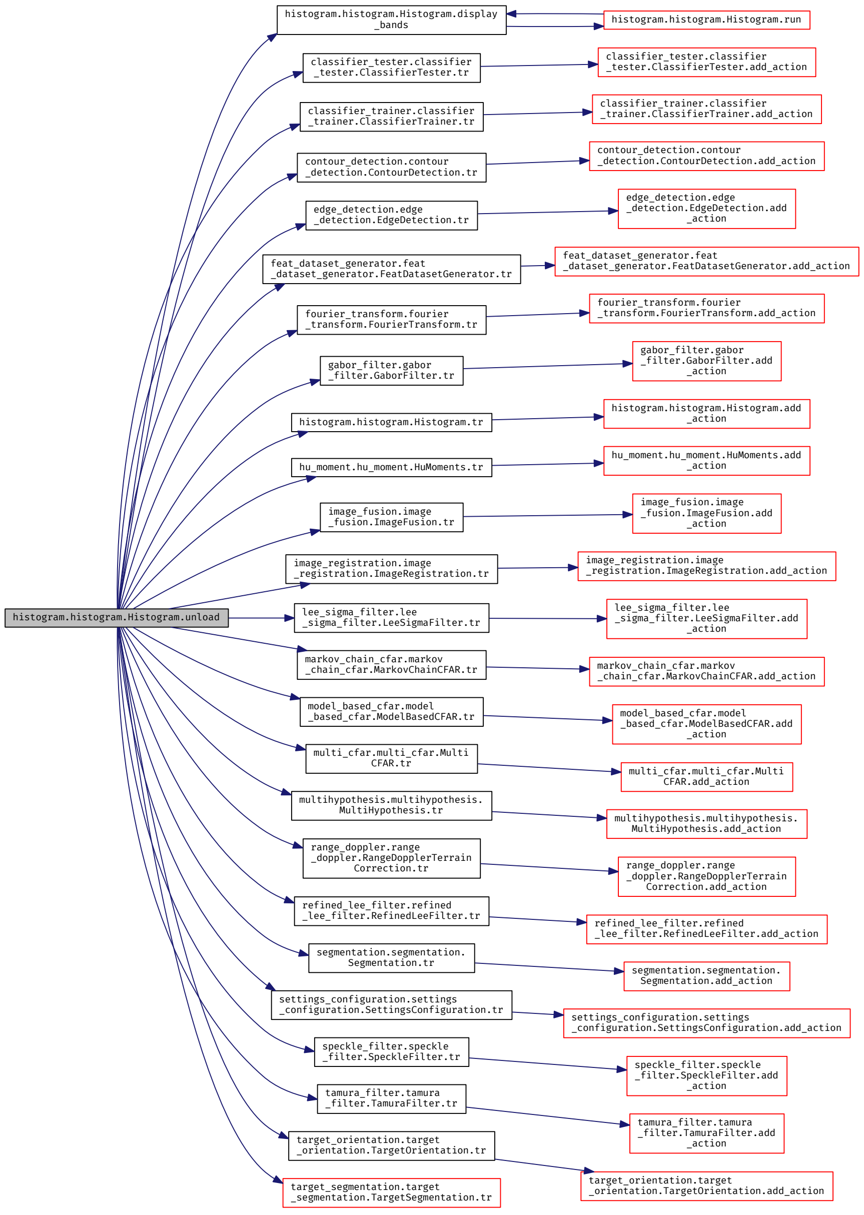

histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
histogram.histogram.Histogram.addToCustomMenu

6.8.3.7 unload()

```
def histogram.histogram.Histogram.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


histogram.histogram.Histogram.unload
histogram.histogram.Histogram.display_bands
histogram.histogram.Histogram.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.tr

6.8.4 Member Data Documentation

6.8.4.1 action

```
histogram.histogram.Histogram.action
```

6.8.4.2 actions

```
histogram.histogram.Histogram.actions
```

6.8.4.3 arguments

```
histogram.histogram.Histogram.arguments
```

6.8.4.4 dlg

```
histogram.histogram.Histogram.dlg
```

6.8.4.5 first_start

```
histogram.histogram.Histogram.first_start
```

6.8.4.6 iface

```
histogram.histogram.Histogram.iface
```

6.8.4.7 menu

```
histogram.histogram.Histogram.menu
```

6.8.4.8 output_dialog

```
histogram.histogram.Histogram.output_dialog
```

6.8.4.9 plugin_dir

```
histogram.histogram.Histogram.plugin_dir
```

6.8.4.10 subMenu

```
histogram.histogram.Histogram.subMenu
```

6.8.4.11 translator

```
histogram.histogram.Histogram.translator
```

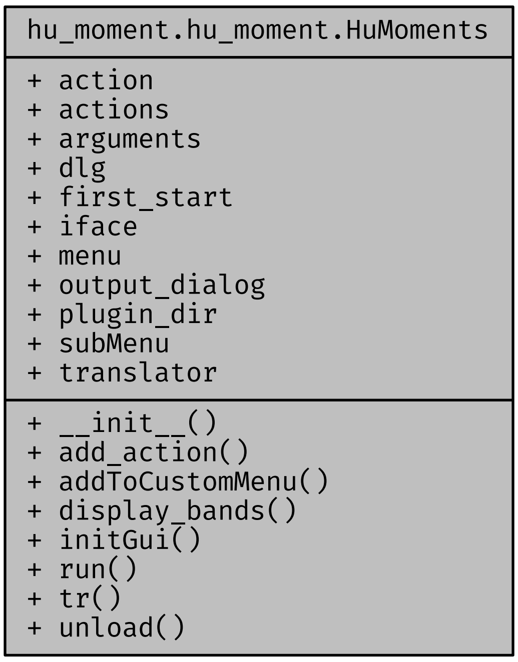
The documentation for this class was generated from the following file:

- histogram.py

6.9 hu_moment.hu_moment.HuMoments Class Reference

QGIS Plugin Implementation.

Collaboration diagram for hu_moment.hu_moment.HuMoments:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def display_bands (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.9.1 Detailed Description

QGIS Plugin Implementation.

6.9.2 Constructor & Destructor Documentation

6.9.2.1 __init__()

```
def hu_moment.hu_moment.HuMoments.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.9.3 Member Function Documentation

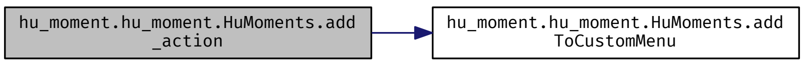
6.9.3.1 add_action()

```
def hu_moment.hu_moment.HuMoments.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


hu_moment.hu_moment.HuMoments.add_action
hu_moment.hu_moment.HuMoments.addToCustomMenu

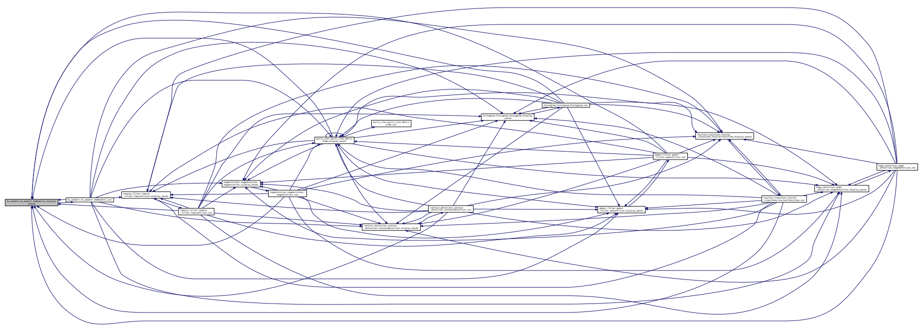
6.9.3.2 addToCustomMenu()

```
def hu_moment.hu_moment.HuMoments.addToCustomMenu (
              self )
```

6.9.3.3 display_bands()

```
def hu_moment.hu_moment.HuMoments.display_bands (
              self )
```

Here is the call graph for this function:

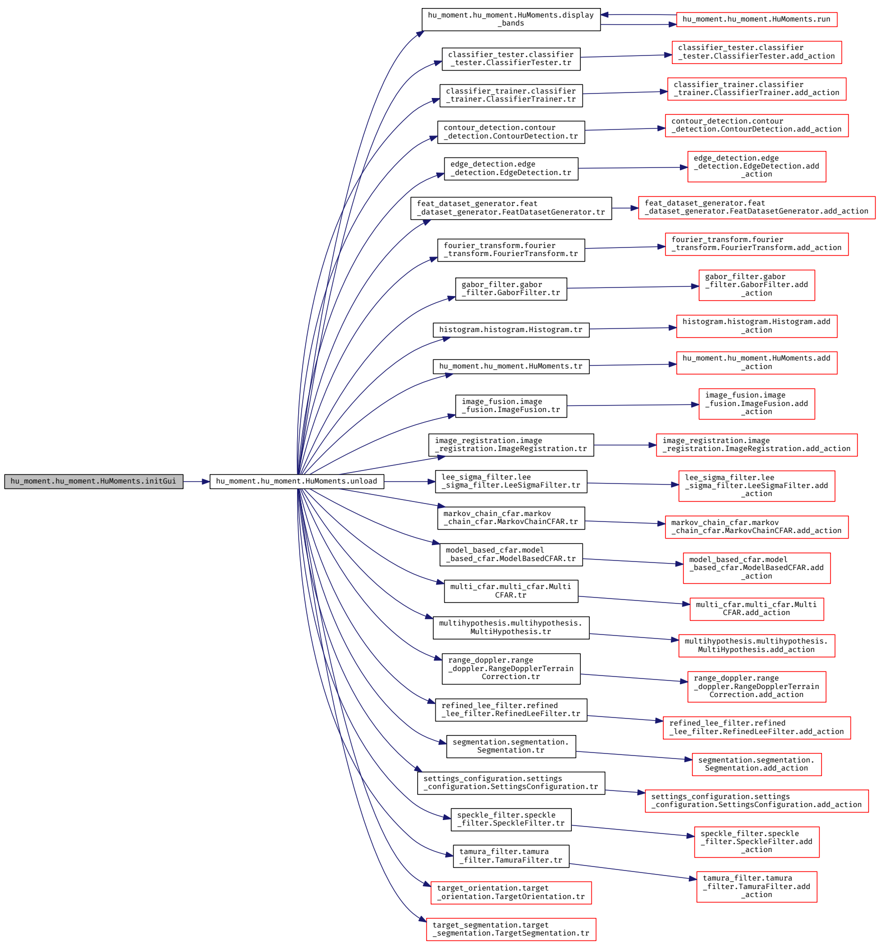


6.9.3.4 initGui()

```
def hu_moment.hu_moment.HuMoments.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:

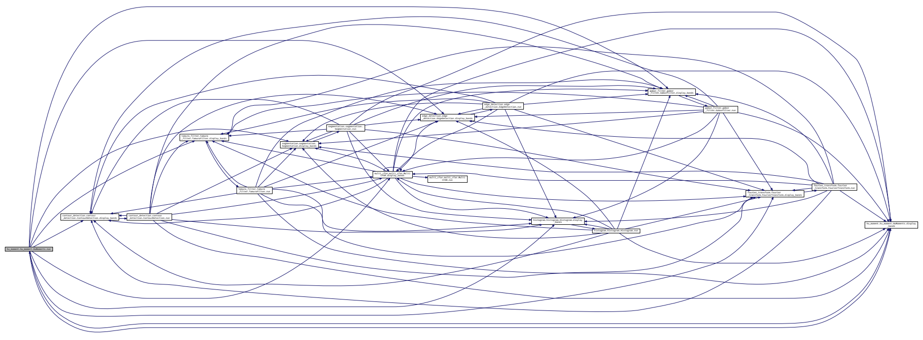

hu_moment.hu_moment.HuMoments.initGui
hu_moment.hu_moment.HuMoments.unload
hu_moment.hu_moment.HuMoments.display_bands
hu_moment.hu_moment.HuMoments.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr

6.9.3.5 run()

```
def hu_moment.hu_moment.HuMoments.run (
              self )
```

Run method that performs all the real work.

Here is the call graph for this function:



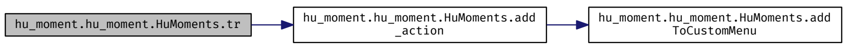
6.9.3.6 tr()

```
def hu_moment.hu_moment.HuMoments.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

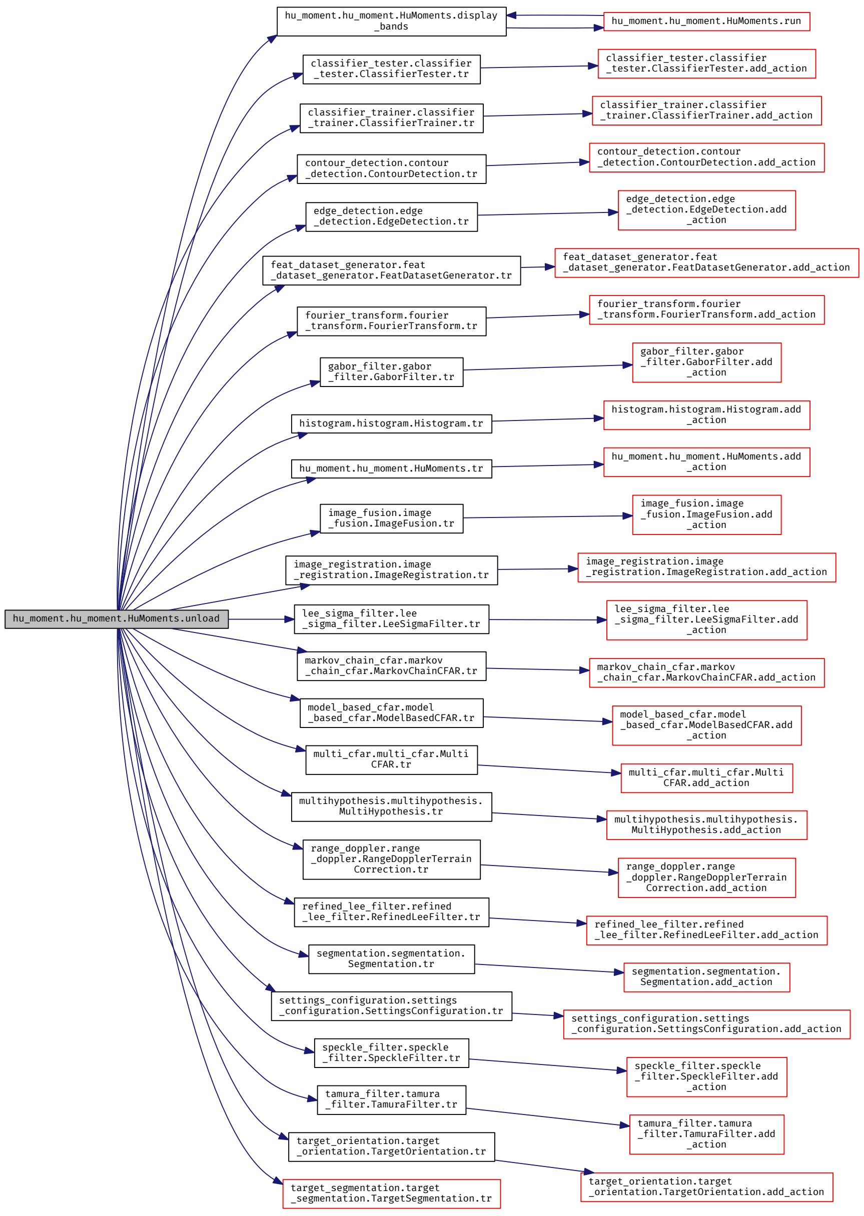

hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
hu_moment.hu_moment.HuMoments.addToCustomMenu

6.9.3.7 unload()

```
def hu_moment.hu_moment.HuMoments.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


hu_moment.hu_moment.HuMoments.unload
hu_moment.hu_moment.HuMoments.display_bands
hu_moment.hu_moment.HuMoments.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.tr

6.9.4 Member Data Documentation

6.9.4.1 action

`hu_moment.hu_moment.HuMoments.action`

6.9.4.2 actions

```
hu_moment.hu_moment.HuMoments.actions
```

6.9.4.3 arguments

```
hu_moment.hu_moment.HuMoments.arguments
```

6.9.4.4 dlg

```
hu_moment.hu_moment.HuMoments.dlg
```

6.9.4.5 first_start

```
hu_moment.hu_moment.HuMoments.first_start
```

6.9.4.6 iface

```
hu_moment.hu_moment.HuMoments.iface
```

6.9.4.7 menu

```
hu_moment.hu_moment.HuMoments.menu
```

6.9.4.8 output_dialog

```
hu_moment.hu_moment.HuMoments.output_dialog
```

6.9.4.9 plugin_dir

```
hu_moment.hu_moment.HuMoments.plugin_dir
```

6.9.4.10 subMenu

```
hu_moment.hu_moment.HuMoments.subMenu
```

6.9.4.11 translator

```
hu_moment.hu_moment.HuMoments.translator
```

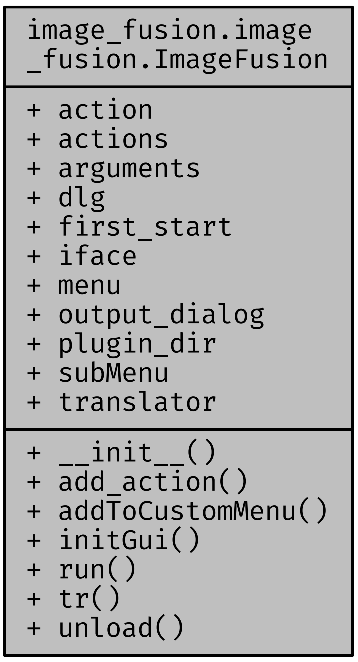
The documentation for this class was generated from the following file:

- hu_moment.py

6.10 image_fusion.image_fusion.ImageFusion Class Reference

QGIS Plugin Implementation.

Collaboration diagram for image_fusion.image_fusion.ImageFusion:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.10.1 Detailed Description

QGIS Plugin Implementation.

6.10.2 Constructor & Destructor Documentation

6.10.2.1 __init__()

```
def image_fusion.image_fusion.ImageFusion.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.10.3 Member Function Documentation

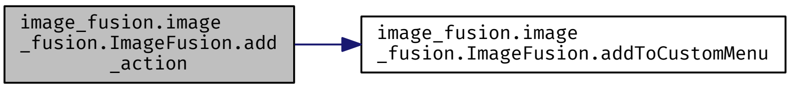
6.10.3.1 add_action()

```
def image_fusion.image_fusion.ImageFusion.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:



6.10.3.2 addToCustomMenu()

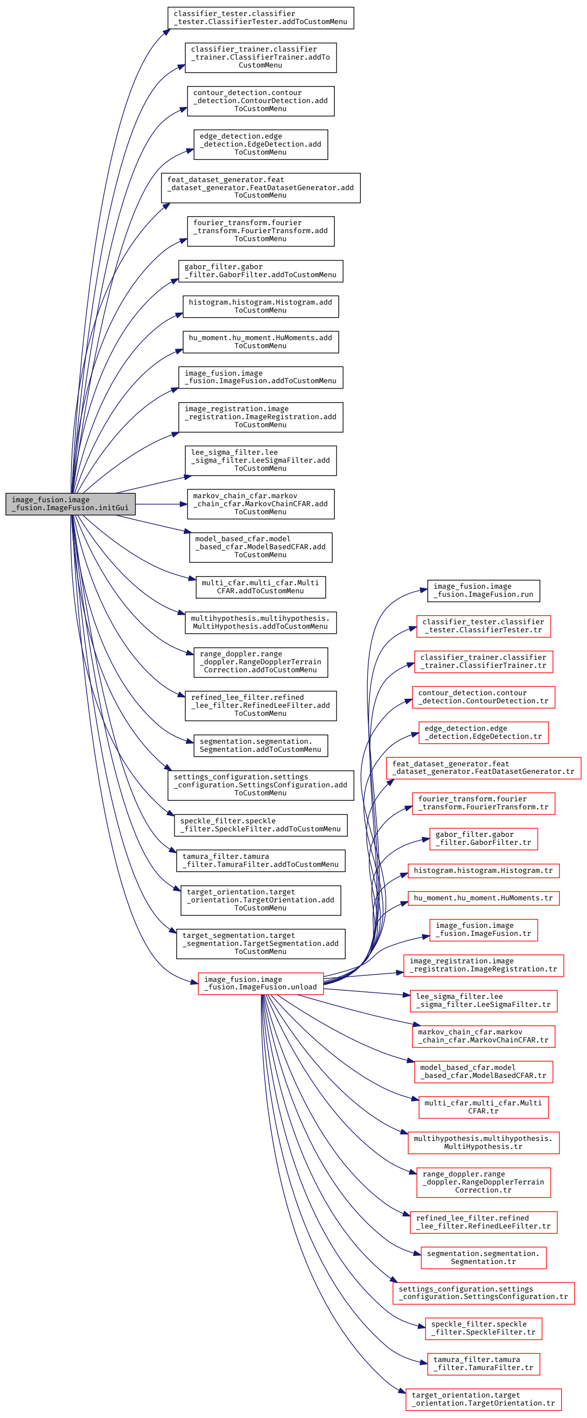
```
def image_fusion.image_fusion.ImageFusion.addToCustomMenu (
              self )
```

6.10.3.3 initGui()

```
def image_fusion.image_fusion.ImageFusion.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


classifier_tester.classifier_tester.ClassifierTester.addToCustomMenu
classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu
contour_detection.contour_detection.ContourDetection.addToCustomMenu
edge_detection.edge_detection.EdgeDetection.addToCustomMenu
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.addToCustomMenu
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu
histogram.histogram.Histogram.addToCustomMenu
hu_moment.hu_moment.HuMoments.addToCustomMenu
image_fusion.image_fusion.ImageFusion.addToCustomMenu
image_registration.image_registration.ImageRegistration.addToCustomMenu
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu
image_fusion.image_fusion.ImageFusion.initGui
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu
model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu
multi_cfar.multi_cfar.MultiCFAR.addToCustomMenu
multihypothesis.multihypothesis.MultiHypothesis.addToCustomMenu
range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu
segmentation.segmentation.Segmentation.addToCustomMenu
settings_configuration.settings_configuration.SettingsConfiguration.addToCustomMenu
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu
tamura_filter.tamura_filter.TamuraFilter.addToCustomMenu
target_orientation.target_orientation.TargetOrientation.addToCustomMenu
target_segmentation.target_segmentation.TargetSegmentation.addToCustomMenu
image_fusion.image_fusion.ImageFusion.unload
image_fusion.image_fusion.ImageFusion.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr

6.10.3.4 run()

```
def image_fusion.image_fusion.ImageFusion.run (
                self )
```

Run method that performs all the real work.

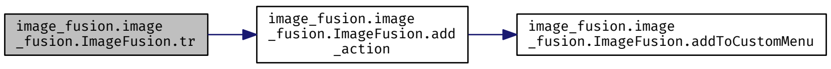
6.10.3.5 tr()

```
def image_fusion.image_fusion.ImageFusion.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

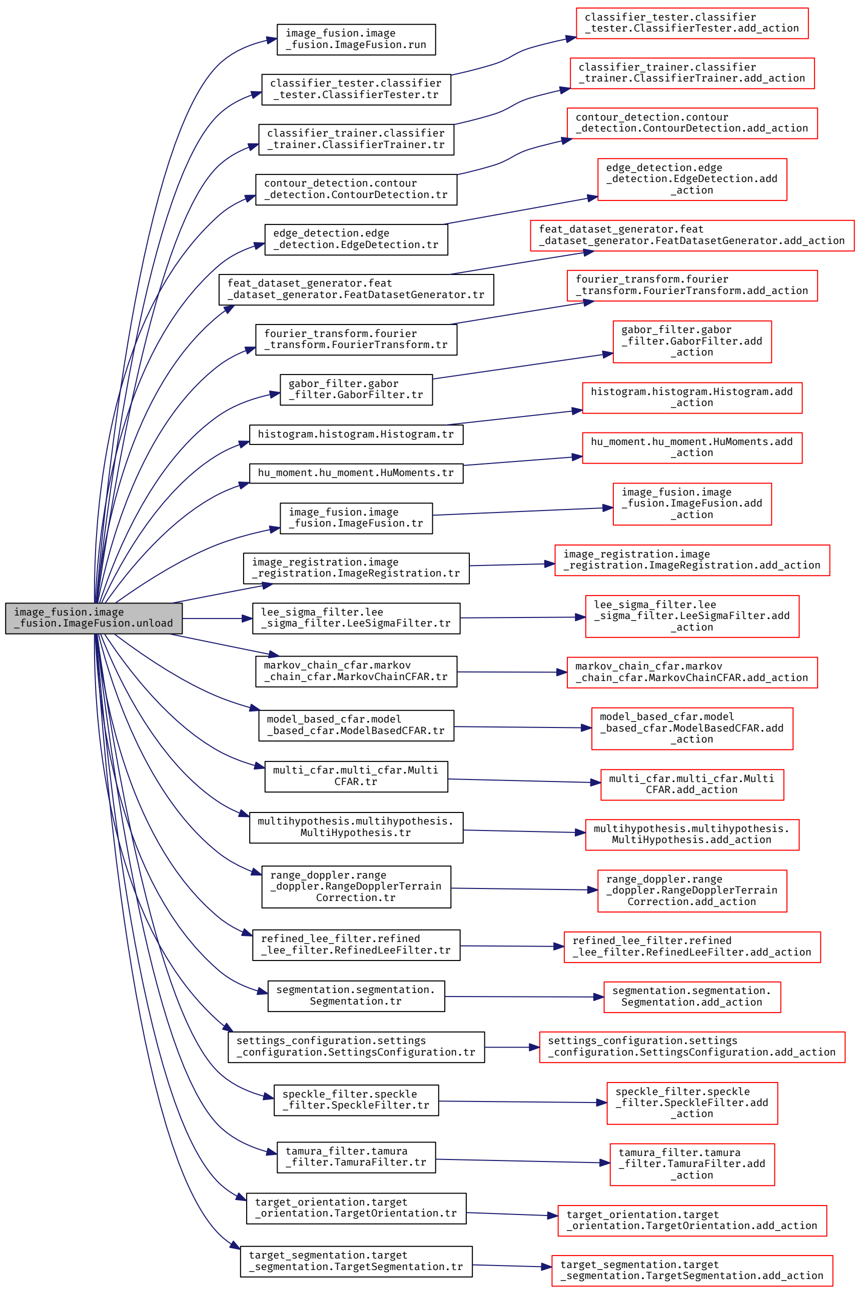

image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_fusion.image_fusion.ImageFusion.addToCustomMenu

6.10.3.6 unload()

```
def image_fusion.image_fusion.ImageFusion.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


image_fusion.image_fusion.ImageFusion.unload
image_fusion.image_fusion.ImageFusion.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.add_action

6.10.4 Member Data Documentation

6.10.4.1 action

`image_fusion.image_fusion.ImageFusion.action`

6.10.4.2 actions

```
image_fusion.image_fusion.ImageFusion.actions
```

6.10.4.3 arguments

```
image_fusion.image_fusion.ImageFusion.arguments
```

6.10.4.4 dlg

```
image_fusion.image_fusion.ImageFusion.dlg
```

6.10.4.5 first_start

```
image_fusion.image_fusion.ImageFusion.first_start
```

6.10.4.6 iface

```
image_fusion.image_fusion.ImageFusion.iface
```

6.10.4.7 menu

```
image_fusion.image_fusion.ImageFusion.menu
```

6.10.4.8 output_dialog

```
image_fusion.image_fusion.ImageFusion.output_dialog
```

6.10.4.9 plugin_dir

```
image_fusion.image_fusion.ImageFusion.plugin_dir
```

6.10.4.10 subMenu

`image_fusion.image_fusion.ImageFusion.subMenu`

6.10.4.11 translator

`image_fusion.image_fusion.ImageFusion.translator`

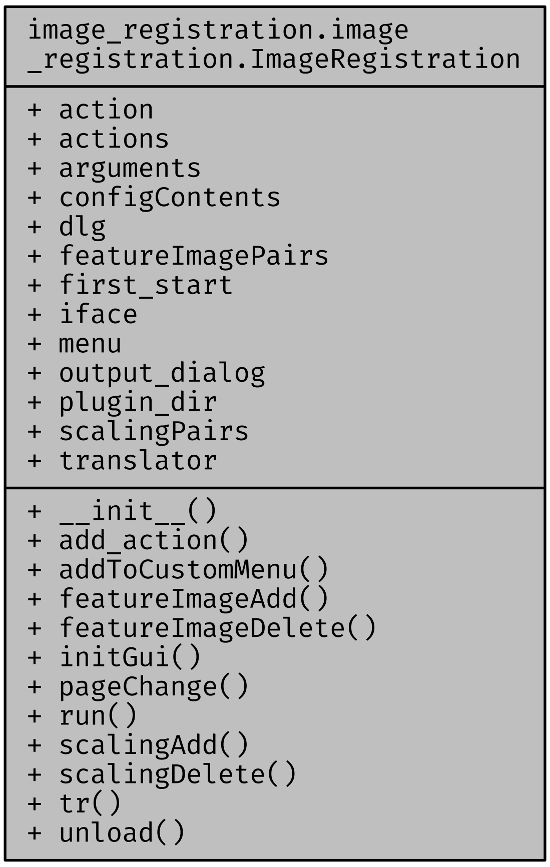
The documentation for this class was generated from the following file:

- image_fusion.py

6.11 image_registration.image_registration.ImageRegistration Class Reference

QGIS Plugin Implementation.

Collaboration diagram for image_registration.image_registration.ImageRegistration:



Public Member Functions

- def __init__ (self, iface)
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)
- def addToCustomMenu (self)
- def featureImageAdd (self)
- def featureImageDelete (self)
- def initGui (self)

    Create the menu entries and toolbar icons inside the QGIS GUI.
- def pageChange (self, pagesToChange)
- def run (self)

    Run method that performs all the real work.
- def scalingAdd (self)
- def scalingDelete (self)
- def tr (self, message)
- def unload (self)

    Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- configContents
- dlg
- featureImagePairs
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- scalingPairs
- translator

6.11.1 Detailed Description

QGIS Plugin Implementation.

6.11.2 Constructor & Destructor Documentation

6.11.2.1 __init__()

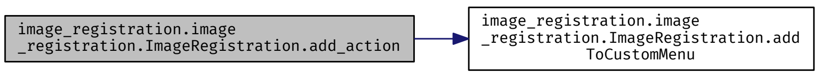
```
def image_registration.image_registration.ImageRegistration.__init__ (
              self,
              iface )
```

6.11.3 Member Function Documentation

6.11.3.1 add_action()

```
def image_registration.image_registration.ImageRegistration.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Here is the call graph for this function:


image_registration.image
_registration.ImageRegistration.add_action
image_registration.image
_registration.ImageRegistration.add
ToCustomMenu

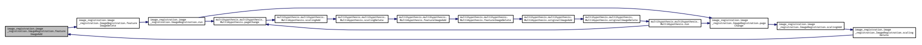
6.11.3.2 addToCustomMenu()

```
def image_registration.image_registration.ImageRegistration.addToCustomMenu (
              self )
```

6.11.3.3 featureImageAdd()

```
def image_registration.image_registration.ImageRegistration.featureImageAdd (
              self )
```

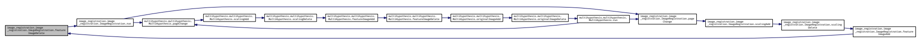
Here is the call graph for this function:


image_registration.image
_registration.ImageRegistration.feature
ImageAdd
image_registration.image
_registration.ImageRegistration.feature
ImageDelete
image_registration.image
_registration.ImageRegistration.run
multihypothesis.multihypothesis.
MultiHypothesis.pageChange
multihypothesis.multihypothesis.
MultiHypothesis.scalingAdd
multihypothesis.multihypothesis.
MultiHypothesis.scalingDelete
multihypothesis.multihypothesis.
MultiHypothesis.featureImageAdd
multihypothesis.multihypothesis.
MultiHypothesis.featureImageDelete
multihypothesis.multihypothesis.
MultiHypothesis.originalImageAdd
multihypothesis.multihypothesis.
MultiHypothesis.originalImageDelete
multihypothesis.multihypothesis.
MultiHypothesis.run
image_registration.image
_registration.ImageRegistration.page
Change
image_registration.image
_registration.ImageRegistration.scalingAdd
image_registration.image
_registration.ImageRegistration.scaling
Delete

6.11.3.4 featureImageDelete()

```
def image_registration.image_registration.ImageRegistration.featureImageDelete (
              self )
```

Here is the call graph for this function:

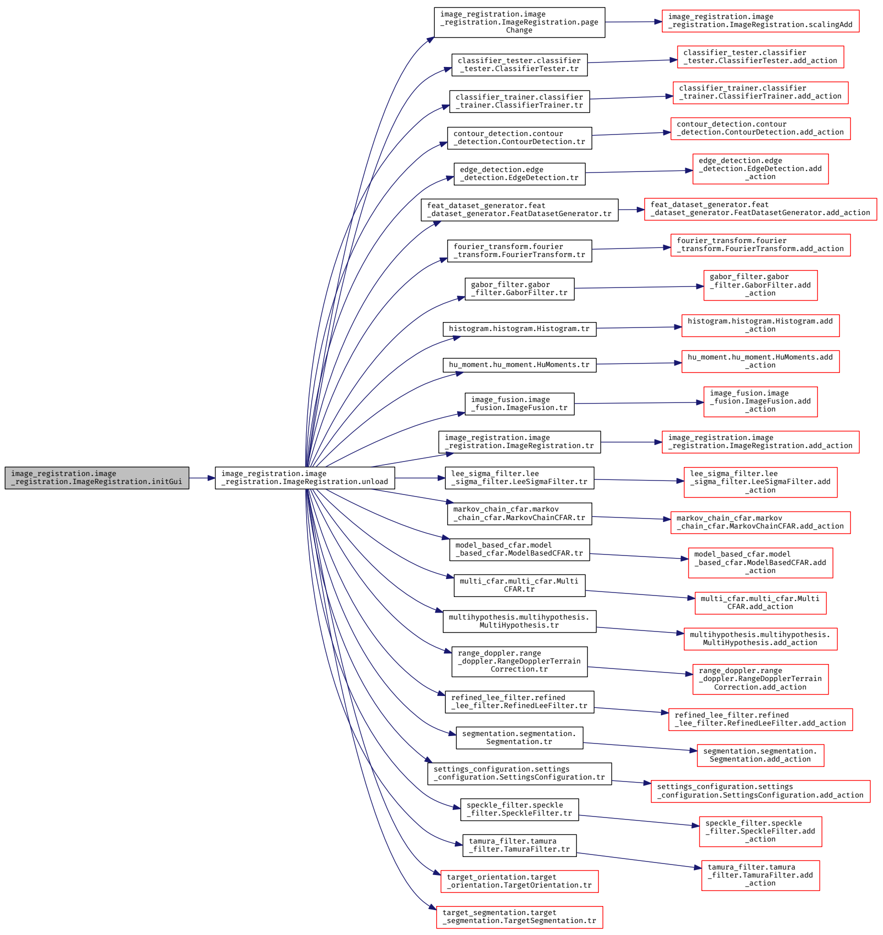

image_registration.image _registration.ImageRegistration.feature ImageDelete
image_registration.image _registration.ImageRegistration.run
multihypothesis.multihypothesis. MultiHypothesis.pageChange
multihypothesis.multihypothesis. MultiHypothesis.scalingAdd
multihypothesis.multihypothesis. MultiHypothesis.scalingDelete
multihypothesis.multihypothesis. MultiHypothesis.featureImageAdd
multihypothesis.multihypothesis. MultiHypothesis.featureImageDelete
multihypothesis.multihypothesis. MultiHypothesis.originalImageAdd
multihypothesis.multihypothesis. MultiHypothesis.originalImageDelete
multihypothesis.multihypothesis. MultiHypothesis.run
image_registration.image _registration.ImageRegistration.page Change
image_registration.image _registration.ImageRegistration.scalingAdd
image_registration.image _registration.ImageRegistration.scaling Delete
image_registration.image _registration.ImageRegistration.feature ImageAdd

6.11.3.5 initGui()

```
def image_registration.image_registration.ImageRegistration.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


image_registration.image _registration.ImageRegistration.initGui
image_registration.image _registration.ImageRegistration.unload
image_registration.image _registration.ImageRegistration.page Change
image_registration.image _registration.ImageRegistration.scalingAdd
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.tr
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.tr
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.tr
target_segmentation.target _segmentation.TargetSegmentation.tr

6.11.3.6 pageChange()

```
def image_registration.image_registration.ImageRegistration.pageChange (
              self,
              pagesToChange )
```

Here is the call graph for this function:

6.11.3.7 run()

```
def image_registration.image_registration.ImageRegistration.run (
              self )
```

Run method that performs all the real work.

Here is the call graph for this function:

6.11.3.8 scalingAdd()

```
def image_registration.image_registration.ImageRegistration.scalingAdd (
              self )
```

Here is the call graph for this function:

6.11.3.9 scalingDelete()

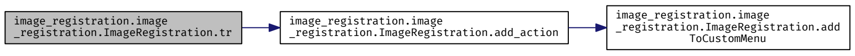
```
def image_registration.image_registration.ImageRegistration.scalingDelete (
              self )
```

Here is the call graph for this function:

6.11.3.10 tr()

```
def image_registration.image_registration.ImageRegistration.tr (
              self,
              message )
```

Here is the call graph for this function:

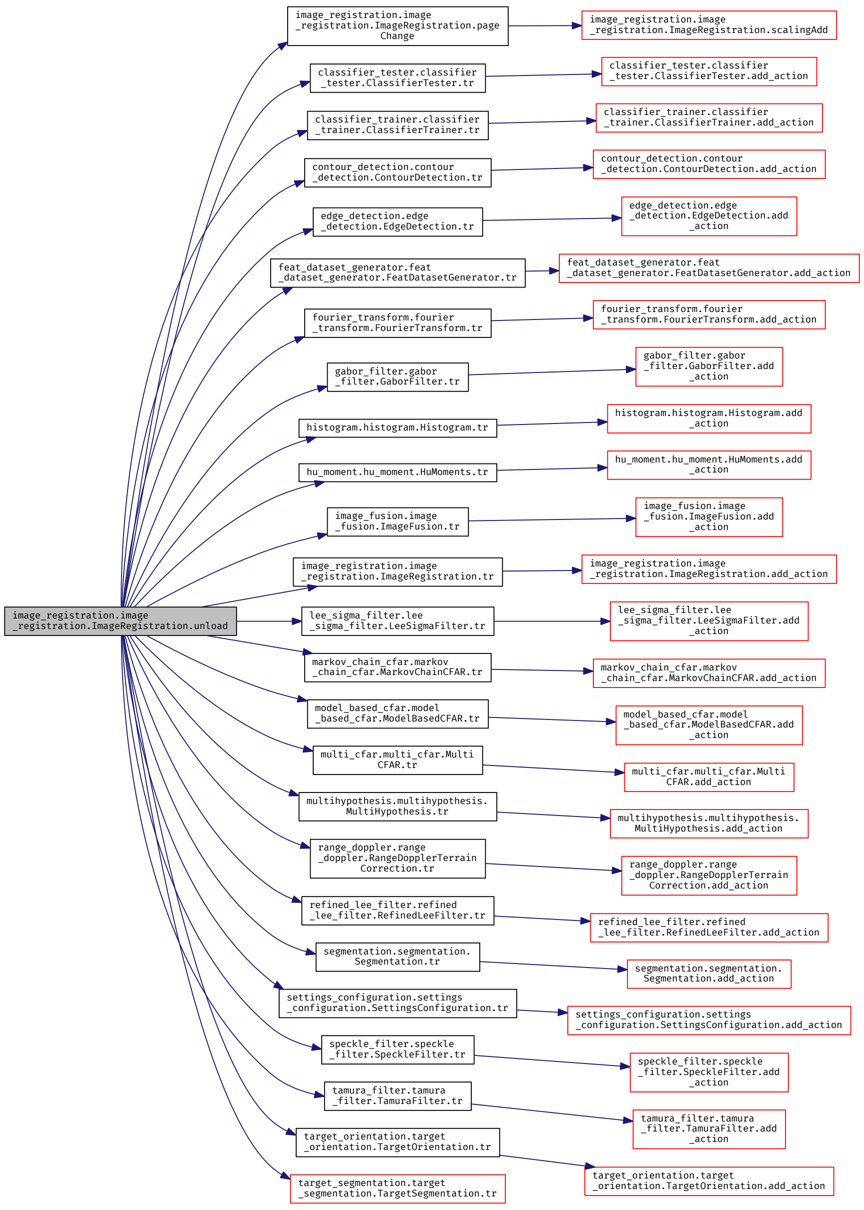

image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
image_registration.image _registration.ImageRegistration.add ToCustomMenu

6.11.3.11 unload()

```
def image_registration.image_registration.ImageRegistration.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


image_registration.image _registration.ImageRegistration.unload
image_registration.image _registration.ImageRegistration.page Change
image_registration.image _registration.ImageRegistration.scalingAdd
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.tr
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.tr
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.tr
target_orientation.target _orientation.TargetOrientation.add_action
target_segmentation.target _segmentation.TargetSegmentation.tr

6.11.4 Member Data Documentation

6.11.4.1 action

`image_registration.image_registration.ImageRegistration.action`

6.11.4.2 actions

`image_registration.image_registration.ImageRegistration.actions`

6.11.4.3 arguments

`image_registration.image_registration.ImageRegistration.arguments`

6.11.4.4 configContents

`image_registration.image_registration.ImageRegistration.configContents`

6.11.4.5 dlg

`image_registration.image_registration.ImageRegistration.dlg`

6.11.4.6 featureImagePairs

`image_registration.image_registration.ImageRegistration.featureImagePairs`

6.11.4.7 first_start

`image_registration.image_registration.ImageRegistration.first_start`

6.11.4.8 iface

`image_registration.image_registration.ImageRegistration.iface`

6.11.4.9 menu

`image_registration.image_registration.ImageRegistration.menu`

6.11.4.10 output_dialog

```
image_registration.image_registration.ImageRegistration.output_dialog
```

6.11.4.11 plugin_dir

```
image_registration.image_registration.ImageRegistration.plugin_dir
```

6.11.4.12 scalingPairs

```
image_registration.image_registration.ImageRegistration.scalingPairs
```

6.11.4.13 translator

```
image_registration.image_registration.ImageRegistration.translator
```

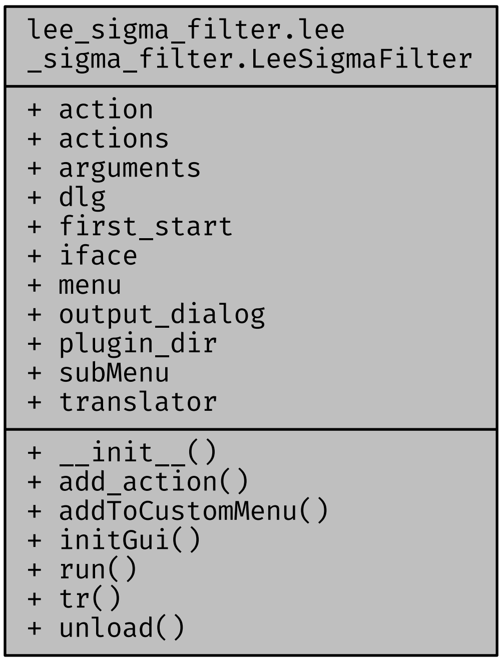
The documentation for this class was generated from the following file:

- image_registration.py

6.12 lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter Class Reference

QGIS Plugin Implementation.

Collaboration diagram for lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter:



Public Member Functions

- def __init__ (self, iface)
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

    Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)
- def run (self)
- def tr (self, message)
- def unload (self)

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.12.1 Detailed Description

QGIS Plugin Implementation.

6.12.2 Constructor & Destructor Documentation

6.12.2.1 __init__()

```
def lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.__init__ (
              self,
              iface )
```

6.12.3 Member Function Documentation

6.12.3.1 add_action()

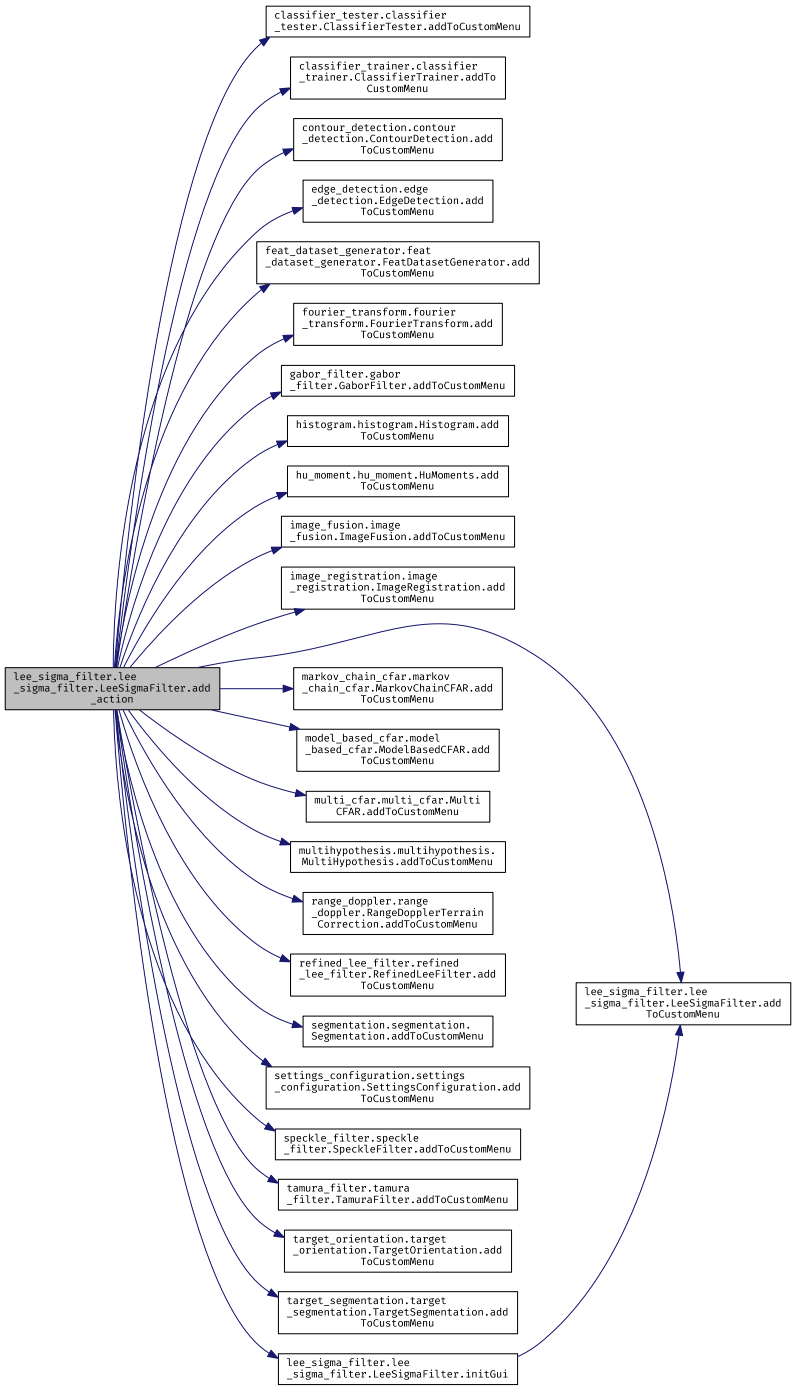
```
def lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
```

```
:type add_to_toolbar: bool

:param status_tip: Optional text to show in a popup when mouse pointer
    hovers over the action.
:type status_tip: str

:param parent: Parent widget for the new action. Defaults None.
:type parent: QWidget

:param whats_this: Optional text to show in the status bar when the
    mouse pointer hovers over the action.

:returns: The action that was created. Note that the action is also
    added to self.actions list.
:rtype: QAction
```

Here is the call graph for this function:


classifier_tester.classifier_tester.ClassifierTester.addToCustomMenu
classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu
contour_detection.contour_detection.ContourDetection.addToCustomMenu
edge_detection.edge_detection.EdgeDetection.addToCustomMenu
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.addToCustomMenu
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu
histogram.histogram.Histogram.addToCustomMenu
hu_moment.hu_moment.HuMoments.addToCustomMenu
image_fusion.image_fusion.ImageFusion.addToCustomMenu
image_registration.image_registration.ImageRegistration.addToCustomMenu
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu
model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu
multi_cfar.multi_cfar.MultiCFAR.addToCustomMenu
multihypothesis.multihypothesis.MultiHypothesis.addToCustomMenu
range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu
segmentation.segmentation.Segmentation.addToCustomMenu
settings_configuration.settings_configuration.SettingsConfiguration.addToCustomMenu
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu
tamura_filter.tamura_filter.TamuraFilter.addToCustomMenu
target_orientation.target_orientation.TargetOrientation.addToCustomMenu
target_segmentation.target_segmentation.TargetSegmentation.addToCustomMenu
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.initGui
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu

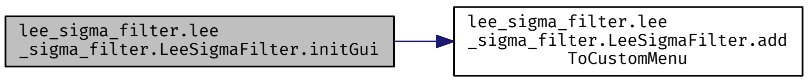
6.12.3.2 addToCustomMenu()

```
def lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu (
              self )
```

6.12.3.3 initGui()

```
def lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.initGui (
              self )
```

Here is the call graph for this function:


lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.initGui
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu

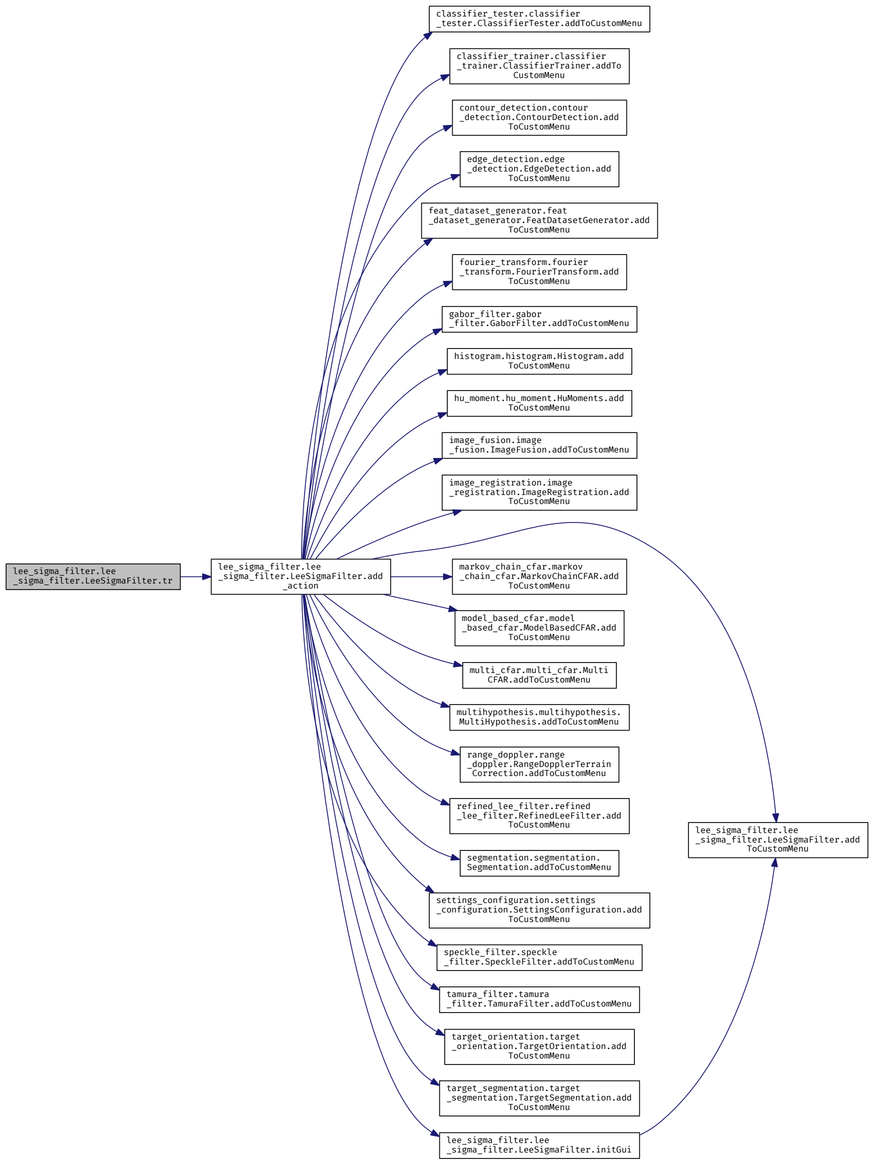
6.12.3.4 run()

```
def lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.run (
              self )
```

6.12.3.5 tr()

```
def lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr (
              self,
              message )
```

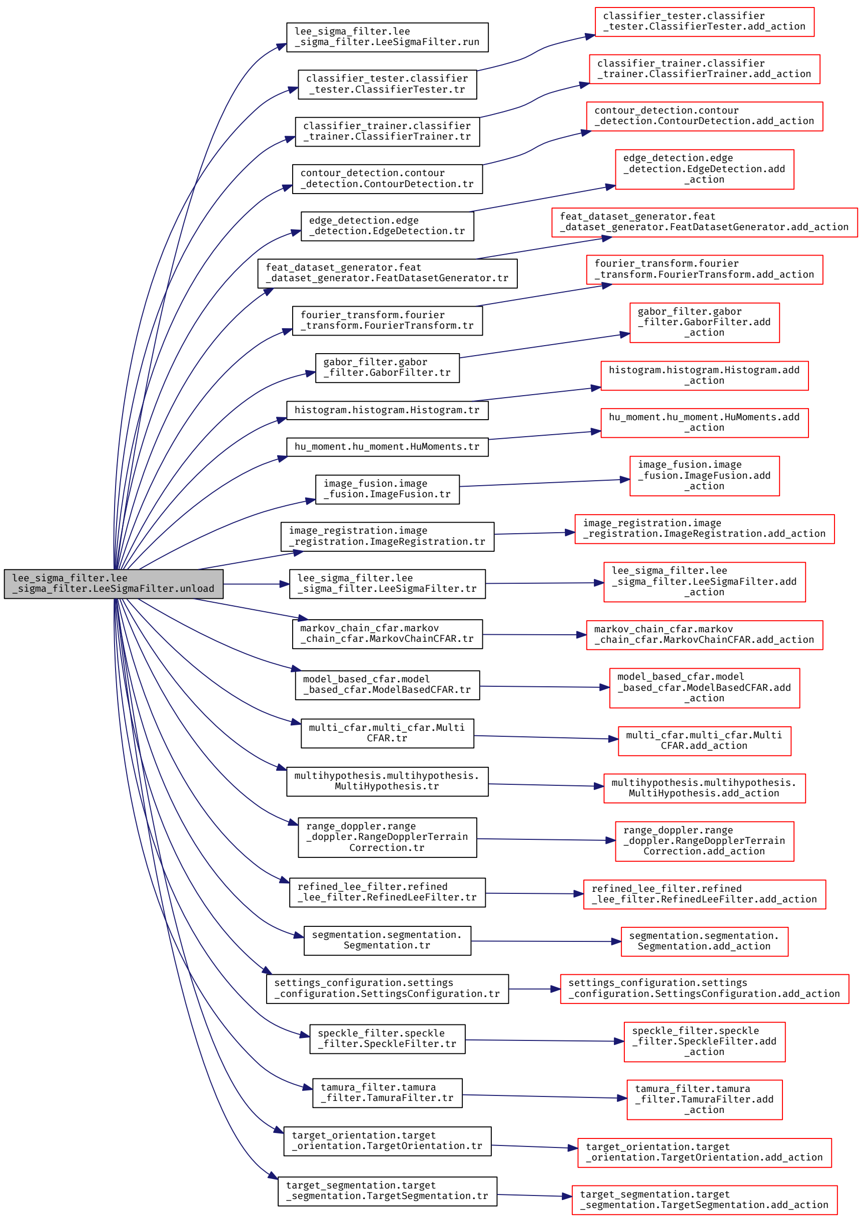
Here is the call graph for this function:


lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
classifier_tester.classifier _tester.ClassifierTester.addToCustomMenu
classifier_trainer.classifier _trainer.ClassifierTrainer.addTo CustomMenu
contour_detection.contour _detection.ContourDetection.add ToCustomMenu
edge_detection.edge _detection.EdgeDetection.add ToCustomMenu
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add ToCustomMenu
fourier_transform.fourier _transform.FourierTransform.add ToCustomMenu
gabor_filter.gabor _filter.GaborFilter.addToCustomMenu
histogram.histogram.Histogram.add ToCustomMenu
hu_moment.hu_moment.HuMoments.add ToCustomMenu
image_fusion.image _fusion.ImageFusion.addToCustomMenu
image_registration.image _registration.ImageRegistration.add ToCustomMenu
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add ToCustomMenu
model_based_cfar.model _based_cfar.ModelBasedCFAR.add ToCustomMenu
multi_cfar.multi_cfar.Multi CFAR.addToCustomMenu
multihypothesis.multihypothesis. MultiHypothesis.addToCustomMenu
range_doppler.range _doppler.RangeDopplerTerrain Correction.addToCustomMenu
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add ToCustomMenu
segmentation.segmentation. Segmentation.addToCustomMenu
settings_configuration.settings _configuration.SettingsConfiguration.add ToCustomMenu
speckle_filter.speckle _filter.SpeckleFilter.addToCustomMenu
tamura_filter.tamura _filter.TamuraFilter.addToCustomMenu
target_orientation.target _orientation.TargetOrientation.add ToCustomMenu
target_segmentation.target _segmentation.TargetSegmentation.add ToCustomMenu
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.initGui
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add ToCustomMenu

6.12.3.6 unload()

```
def lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.unload (
              self )
```

Here is the call graph for this function:


lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.unload
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.add_action

6.12.4 Member Data Documentation

6.12.4.1 action

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.action`

6.12.4.2 actions

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.actions`

6.12.4.3 arguments

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.arguments`

6.12.4.4 dlg

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.dlg`

6.12.4.5 first_start

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.first_start`

6.12.4.6 iface

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.iface`

6.12.4.7 menu

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.menu`

6.12.4.8 output_dialog

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.output_dialog`

6.12.4.9 plugin_dir

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.plugin_dir`

6.12.4.10 subMenu

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.subMenu`

6.12.4.11 translator

`lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.translator`

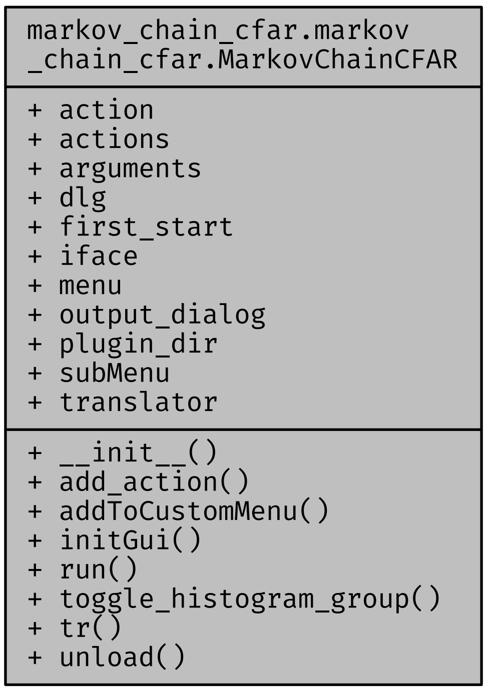
The documentation for this class was generated from the following file:

- lee_sigma_filter.py

6.13 markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR Class Reference

QGIS Plugin Implementation.

Collaboration diagram for markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR:



Public Member Functions

- def __init__ (self, iface)
  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)
  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)
  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)
  Run method that performs all the real work.
- def toggle_histogram_group (self)
- def tr (self, message)
  Get the translation for a string using Qt translation API.
- def unload (self)
  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.13.1 Detailed Description

QGIS Plugin Implementation.

6.13.2 Constructor & Destructor Documentation

6.13.2.1 __init__()

```
def markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.13.3 Member Function Documentation

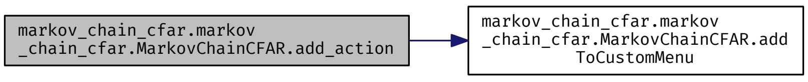
6.13.3.1 add_action()

```
def markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
:param icon_path: Path to the icon for this action. Can be a resource
    path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
:type icon_path: str

:param text: Text that should be shown in menu items for this action.
:type text: str

:param callback: Function to be called when the action is triggered.
:type callback: function

:param enabled_flag: A flag indicating if the action should be enabled
    by default. Defaults to True.
:type enabled_flag: bool

:param add_to_menu: Flag indicating whether the action should also
    be added to the menu. Defaults to True.
:type add_to_menu: bool

:param add_to_toolbar: Flag indicating whether the action should also
    be added to the toolbar. Defaults to True.
:type add_to_toolbar: bool

:param status_tip: Optional text to show in a popup when mouse pointer
    hovers over the action.
:type status_tip: str

:param parent: Parent widget for the new action. Defaults None.
:type parent: QWidget

:param whats_this: Optional text to show in the status bar when the
    mouse pointer hovers over the action.

:returns: The action that was created. Note that the action is also
    added to self.actions list.
:rtype: QAction
```

Here is the call graph for this function:


markov_chain_cfar.markov
_chain_cfar.MarkovChainCFAR.add_action
markov_chain_cfar.markov
_chain_cfar.MarkovChainCFAR.add
ToCustomMenu

6.13.3.2 addToCustomMenu()

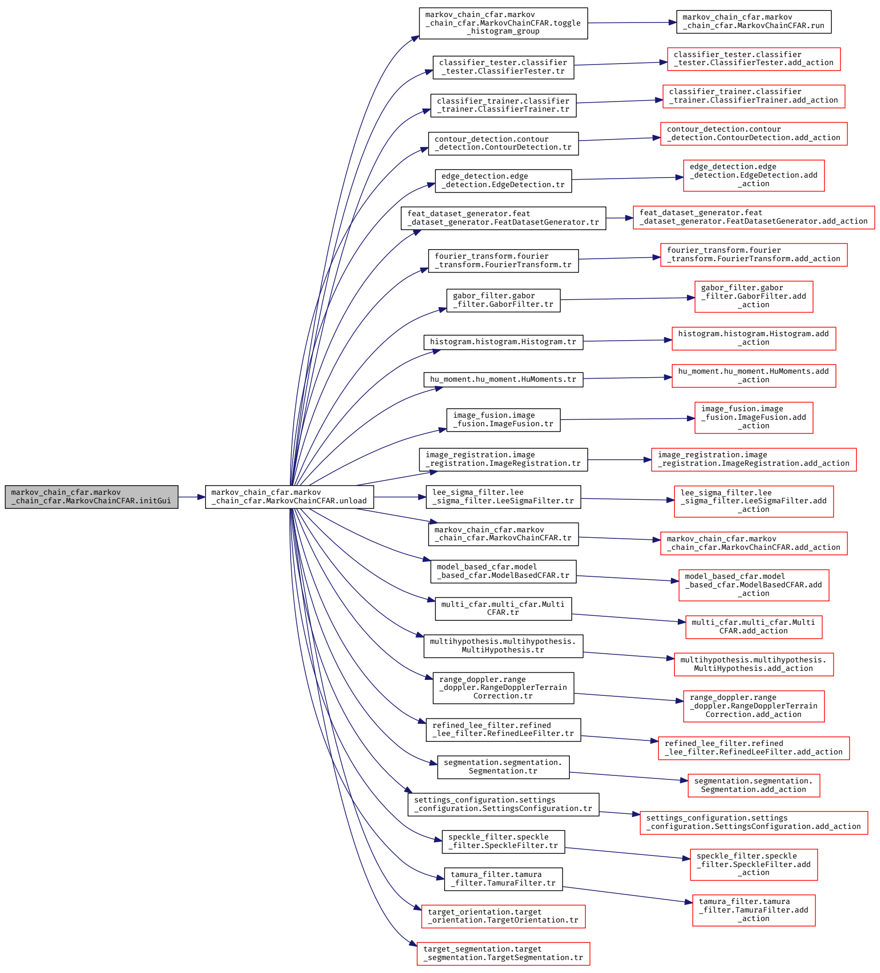
```
def markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu (
              self )
```

6.13.3.3 initGui()

```
def markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.initGui
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.unload
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.toggle _histogram_group
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.tr
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.tr
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.tr
target_segmentation.target _segmentation.TargetSegmentation.tr

6.13.3.4 run()

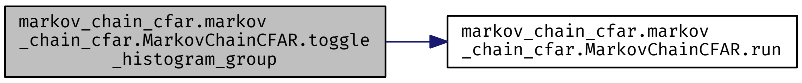
```
def markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.run (
              self )
```

Run method that performs all the real work.

6.13.3.5 toggle_histogram_group()

```
def markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.toggle_histogram_group (
              self )
```

Here is the call graph for this function:


markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.toggle_histogram_group
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.run

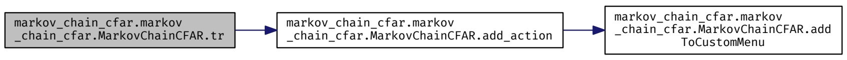
6.13.3.6 tr()

```
def markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

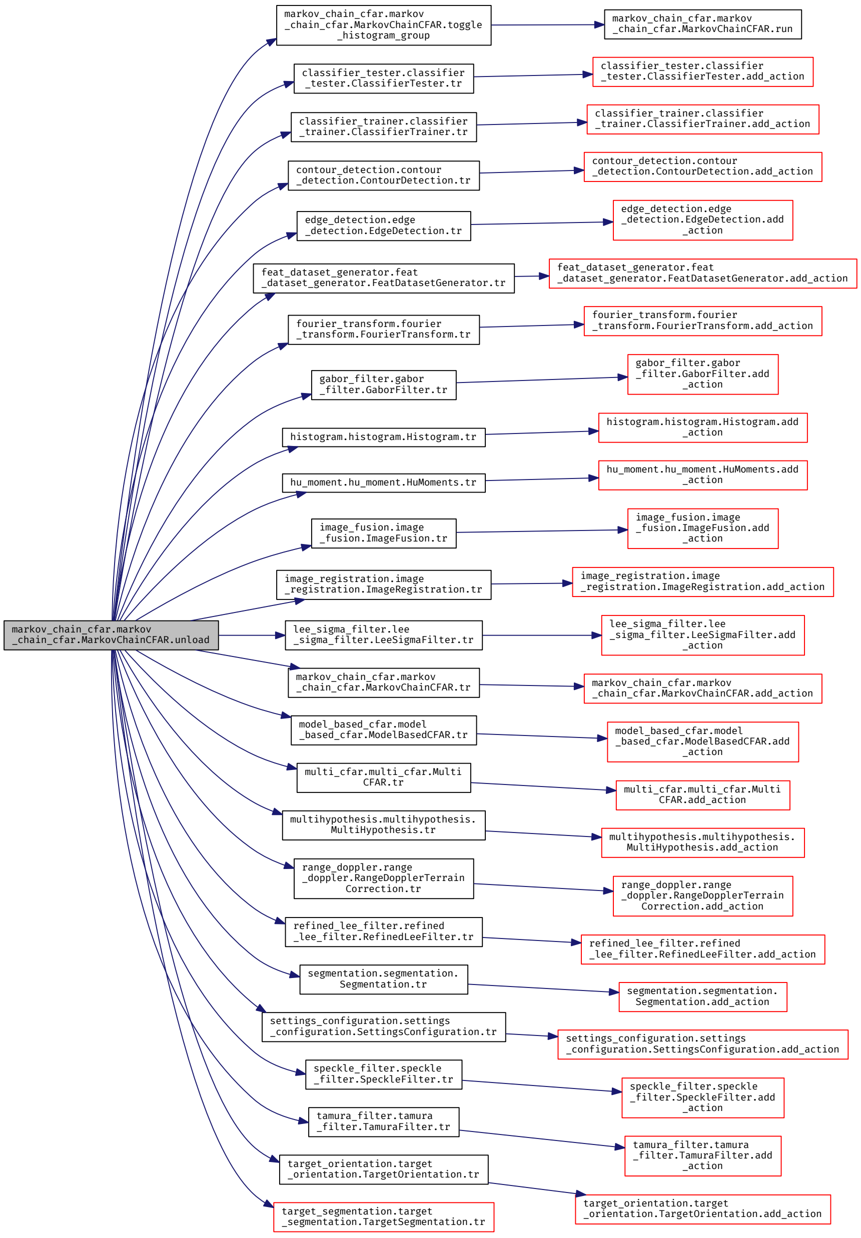

markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu

6.13.3.7 unload()

```
def markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.unload (
                self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.unload
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.toggle _histogram_group
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.tr
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.tr
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.tr
target_orientation.target _orientation.TargetOrientation.add_action
target_segmentation.target _segmentation.TargetSegmentation.tr

6.13.4 Member Data Documentation

6.13.4.1 action

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.action`

6.13.4.2 actions

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.actions`

6.13.4.3 arguments

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.arguments`

6.13.4.4 dlg

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.dlg`

6.13.4.5 first_start

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.first_start`

6.13.4.6 iface

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.iface`

6.13.4.7 menu

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.menu`

6.13.4.8 output_dialog

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.output_dialog`

6.13.4.9 plugin_dir

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.plugin_dir`

6.13.4.10 subMenu

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.subMenu`

6.13.4.11 translator

`markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.translator`

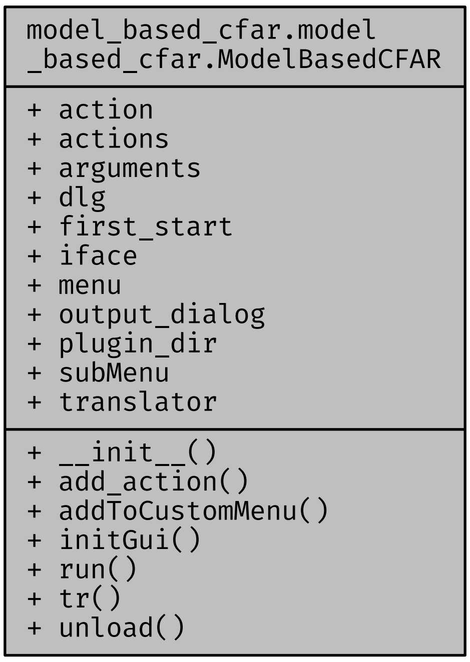
The documentation for this class was generated from the following file:

- markov_chain_cfar.py

6.14 model_based_cfar.model_based_cfar.ModelBasedCFAR Class Reference

QGIS Plugin Implementation.

Collaboration diagram for model_based_cfar.model_based_cfar.ModelBasedCFAR:



Public Member Functions

- def __init__ (self, iface)

    Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

    Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

    Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

    Run method that performs all the real work.
- def tr (self, message)

    Get the translation for a string using Qt translation API.
- def unload (self)

    Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.14.1 Detailed Description

QGIS Plugin Implementation.

6.14.2 Constructor & Destructor Documentation

6.14.2.1 __init__()

```
def model_based_cfar.model_based_cfar.ModelBasedCFAR.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.14.3 Member Function Documentation

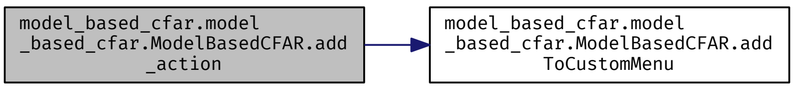
6.14.3.1 add_action()

```
def model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu

6.14.3.2 addToCustomMenu()

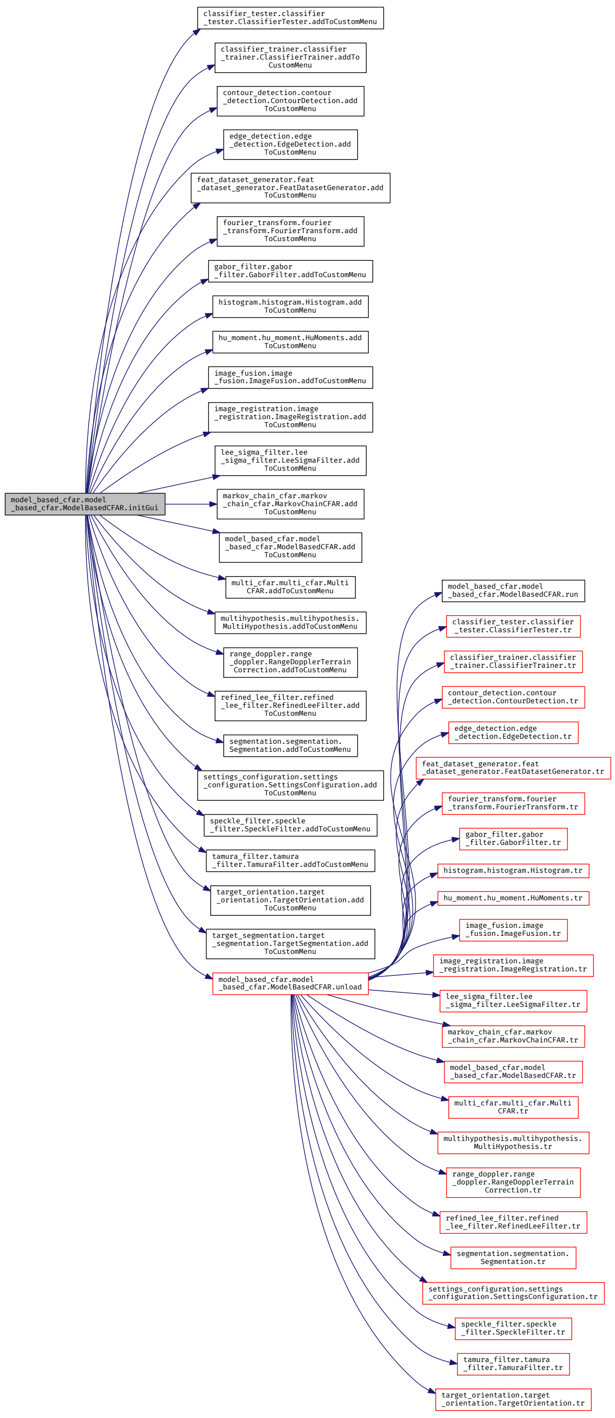
```
def model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu (
              self )
```

6.14.3.3 initGui()

```
def model_based_cfar.model_based_cfar.ModelBasedCFAR.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:



model_based_cfar.model_based_cfar.ModelBasedCFAR.initGui
classifier_tester.classifier_tester.ClassifierTester.addToCustomMenu
classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu
contour_detection.contour_detection.ContourDetection.addToCustomMenu
edge_detection.edge_detection.EdgeDetection.addToCustomMenu
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.addToCustomMenu
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu
histogram.histogram.Histogram.addToCustomMenu
hu_moment.hu_moment.HuMoments.addToCustomMenu
image_fusion.image_fusion.ImageFusion.addToCustomMenu
image_registration.image_registration.ImageRegistration.addToCustomMenu
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu
model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu
multi_cfar.multi_cfar.MultiCFAR.addToCustomMenu
multihypothesis.multihypothesis.MultiHypothesis.addToCustomMenu
range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu
segmentation.segmentation.Segmentation.addToCustomMenu
settings_configuration.settings_configuration.SettingsConfiguration.addToCustomMenu
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu
tamura_filter.tamura_filter.TamuraFilter.addToCustomMenu
target_orientation.target_orientation.TargetOrientation.addToCustomMenu
target_segmentation.target_segmentation.TargetSegmentation.addToCustomMenu
model_based_cfar.model_based_cfar.ModelBasedCFAR.unload
model_based_cfar.model_based_cfar.ModelBasedCFAR.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr

6.14.3.4 run()

```
def model_based_cfar.model_based_cfar.ModelBasedCFAR.run (
                self )
```

Run method that performs all the real work.

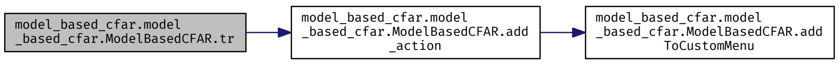
6.14.3.5 tr()

```
def model_based_cfar.model_based_cfar.ModelBasedCFAR.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

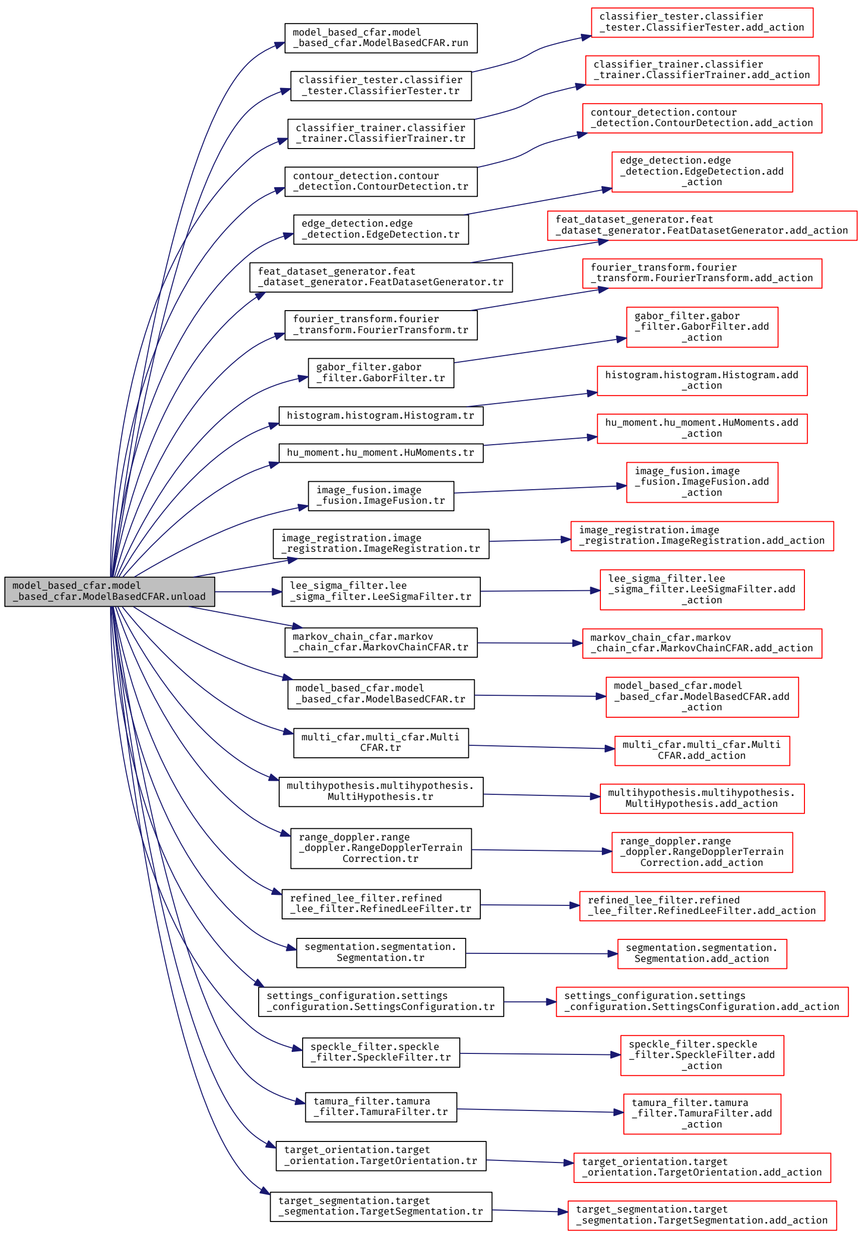

model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
model_based_cfar.model _based_cfar.ModelBasedCFAR.add ToCustomMenu

6.14.3.6 unload()

```
def model_based_cfar.model_based_cfar.ModelBasedCFAR.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


model_based_cfar.model_based_cfar.ModelBasedCFAR.unload
model_based_cfar.model_based_cfar.ModelBasedCFAR.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.add_action

6.14.4 Member Data Documentation

6.14.4.1 action

`model_based_cfar.model_based_cfar.ModelBasedCFAR.action`

6.14.4.2 actions

`model_based_cfar.model_based_cfar.ModelBasedCFAR.actions`

6.14.4.3 arguments

`model_based_cfar.model_based_cfar.ModelBasedCFAR.arguments`

6.14.4.4 dlg

`model_based_cfar.model_based_cfar.ModelBasedCFAR.dlg`

6.14.4.5 first_start

`model_based_cfar.model_based_cfar.ModelBasedCFAR.first_start`

6.14.4.6 iface

`model_based_cfar.model_based_cfar.ModelBasedCFAR.iface`

6.14.4.7 menu

`model_based_cfar.model_based_cfar.ModelBasedCFAR.menu`

6.14.4.8 output_dialog

`model_based_cfar.model_based_cfar.ModelBasedCFAR.output_dialog`

6.14.4.9 plugin_dir

`model_based_cfar.model_based_cfar.ModelBasedCFAR.plugin_dir`

6.14.4.10 subMenu

`model_based_cfar.model_based_cfar.ModelBasedCFAR.subMenu`

6.14.4.11 translator

`model_based_cfar.model_based_cfar.ModelBasedCFAR.translator`

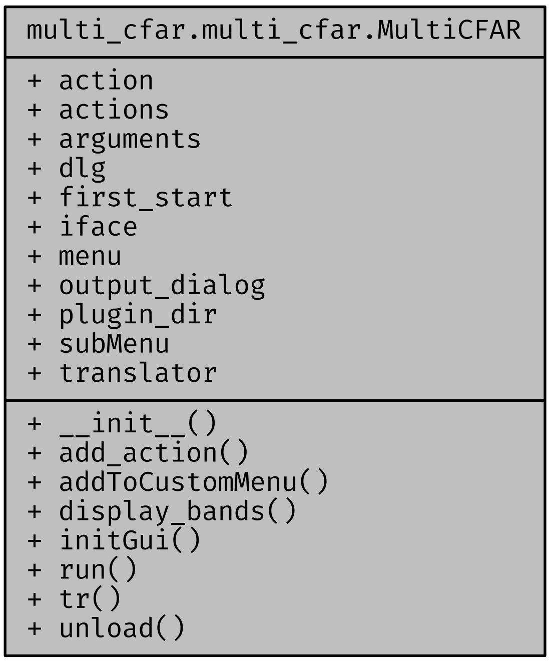
The documentation for this class was generated from the following file:

- model_based_cfar.py

6.15 multi_cfar.multi_cfar.MultiCFAR Class Reference

QGIS Plugin Implementation.

Collaboration diagram for multi_cfar.multi_cfar.MultiCFAR:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def display_bands (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.15.1 Detailed Description

QGIS Plugin Implementation.

6.15.2 Constructor & Destructor Documentation

6.15.2.1 __init__()

```
def multi_cfar.multi_cfar.MultiCFAR.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.15.3 Member Function Documentation

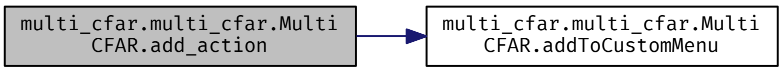
6.15.3.1 add_action()

```
def multi_cfar.multi_cfar.MultiCFAR.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


multi_cfar.multi_cfar.Multi CFAR.add_action
multi_cfar.multi_cfar.Multi CFAR.addToCustomMenu

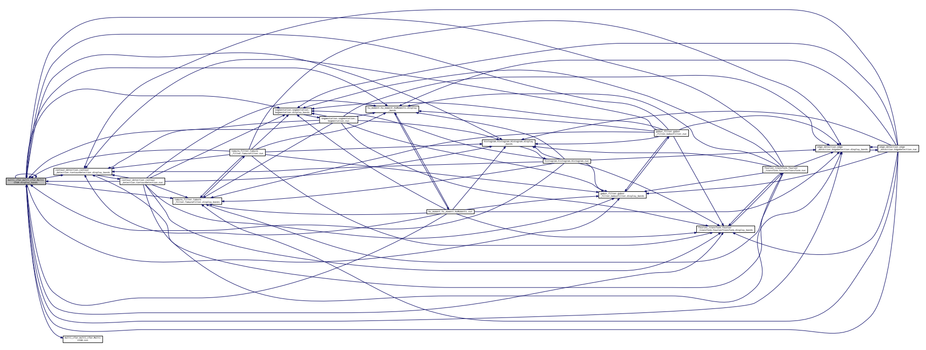
6.15.3.2 addToCustomMenu()

```
def multi_cfar.multi_cfar.MultiCFAR.addToCustomMenu (
              self )
```

6.15.3.3 display_bands()

```
def multi_cfar.multi_cfar.MultiCFAR.display_bands (
              self )
```

Here is the call graph for this function:

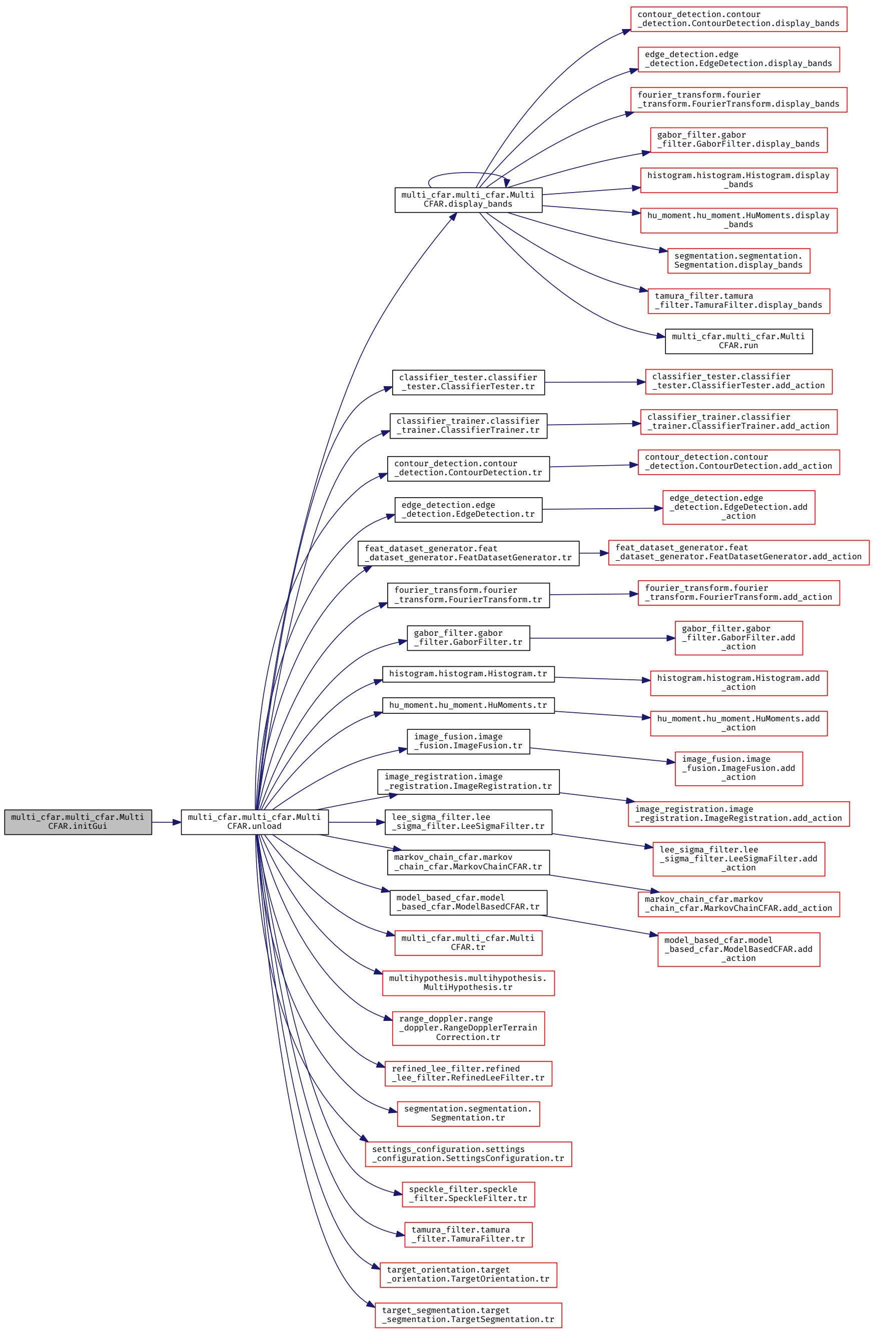


6.15.3.4 initGui()

```
def multi_cfar.multi_cfar.MultiCFAR.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


multi_cfar.multi_cfar.Multi CFAR.initGui
multi_cfar.multi_cfar.Multi CFAR.unload
multi_cfar.multi_cfar.Multi CFAR.display_bands
contour_detection.contour _detection.ContourDetection.display_bands
edge_detection.edge _detection.EdgeDetection.display_bands
fourier_transform.fourier _transform.FourierTransform.display_bands
gabor_filter.gabor _filter.GaborFilter.display_bands
histogram.histogram.Histogram.display _bands
hu_moment.hu_moment.HuMoments.display _bands
segmentation.segmentation. Segmentation.display_bands
tamura_filter.tamura _filter.TamuraFilter.display_bands
multi_cfar.multi_cfar.Multi CFAR.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multihypothesis.multihypothesis. MultiHypothesis.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
segmentation.segmentation. Segmentation.tr
settings_configuration.settings _configuration.SettingsConfiguration.tr
speckle_filter.speckle _filter.SpeckleFilter.tr
tamura_filter.tamura _filter.TamuraFilter.tr
target_orientation.target _orientation.TargetOrientation.tr
target_segmentation.target _segmentation.TargetSegmentation.tr

6.15.3.5 run()

```
def multi_cfar.multi_cfar.MultiCFAR.run (
                self )
```

Run method that performs all the real work.

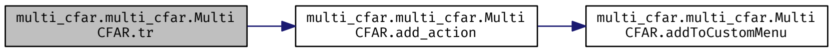
6.15.3.6 tr()

```
def multi_cfar.multi_cfar.MultiCFAR.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

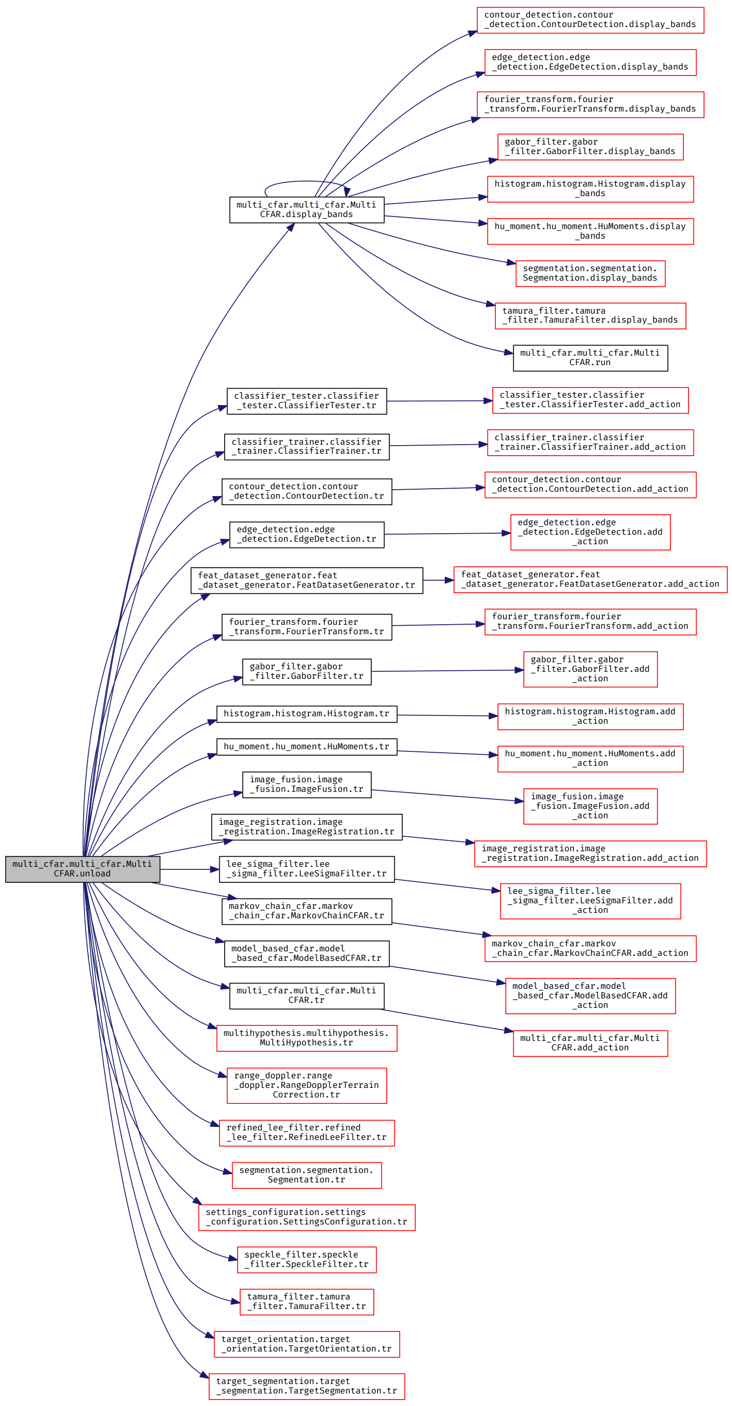

multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multi_cfar.multi_cfar.Multi CFAR.addToCustomMenu

6.15.3.7 unload()

```
def multi_cfar.multi_cfar.MultiCFAR.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


contour_detection.contour_detection.ContourDetection.display_bands
edge_detection.edge_detection.EdgeDetection.display_bands
fourier_transform.fourier_transform.FourierTransform.display_bands
gabor_filter.gabor_filter.GaborFilter.display_bands
histogram.histogram.Histogram.display_bands
multi_cfar.multi_cfar.MultiCFAR.display_bands
hu_moment.hu_moment.HuMoments.display_bands
segmentation.segmentation.Segmentation.display_bands
tamura_filter.tamura_filter.TamuraFilter.display_bands
multi_cfar.multi_cfar.MultiCFAR.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
multi_cfar.multi_cfar.MultiCFAR.unload
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr

6.15.4 Member Data Documentation

6.15.4.1 action

`multi_cfar.multi_cfar.MultiCFAR.action`

6.15.4.2 actions

`multi_cfar.multi_cfar.MultiCFAR.actions`

6.15.4.3 arguments

`multi_cfar.multi_cfar.MultiCFAR.arguments`

6.15.4.4 dlg

`multi_cfar.multi_cfar.MultiCFAR.dlg`

6.15.4.5 first_start

`multi_cfar.multi_cfar.MultiCFAR.first_start`

6.15.4.6 iface

`multi_cfar.multi_cfar.MultiCFAR.iface`

6.15.4.7 menu

`multi_cfar.multi_cfar.MultiCFAR.menu`

6.15.4.8 output_dialog

`multi_cfar.multi_cfar.MultiCFAR.output_dialog`

6.15.4.9 plugin_dir

```
multi_cfar.multi_cfar.MultiCFAR.plugin_dir
```

6.15.4.10 subMenu

```
multi_cfar.multi_cfar.MultiCFAR.subMenu
```

6.15.4.11 translator

```
multi_cfar.multi_cfar.MultiCFAR.translator
```

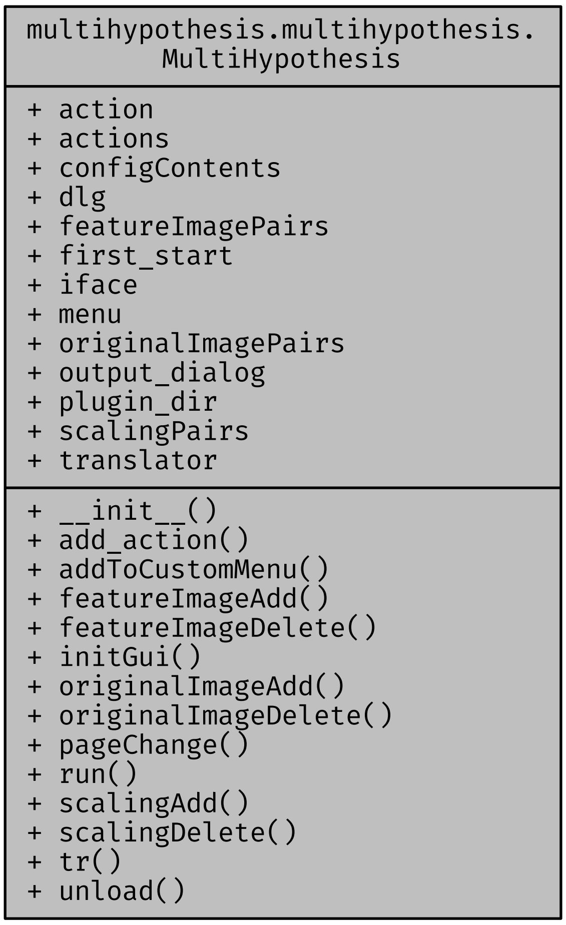
The documentation for this class was generated from the following file:

- multi_cfar.py

6.16 multihypothesis.multihypothesis.MultiHypothesis Class Reference

QGIS Plugin Implementation.

Collaboration diagram for multihypothesis.multihypothesis.MultiHypothesis:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def featureImageAdd (self)
- def featureImageDelete (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def originalImageAdd (self)
- def originalImageDelete (self)
- def pageChange (self, pagesToChange)
- def run (self)

Run method that performs all the real work.
- def scalingAdd (self)
- def scalingDelete (self)
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- configContents
- dlg
- featureImagePairs
- first_start
- iface
- menu
- originalImagePairs
- output_dialog
- plugin_dir
- scalingPairs
- translator

6.16.1 Detailed Description

QGIS Plugin Implementation.

6.16.2 Constructor & Destructor Documentation

6.16.2.1 __init__()

```
def multihypothesis.multihypothesis.MultiHypothesis.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.16.3 Member Function Documentation

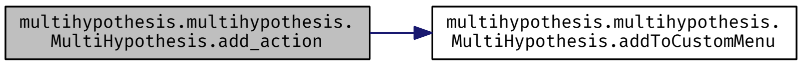
6.16.3.1 add_action()

```
def multihypothesis.multihypothesis.MultiHypothesis.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


multihypothesis.multihypothesis.
MultiHypothesis.add_action
multihypothesis.multihypothesis.
MultiHypothesis.addToCustomMenu

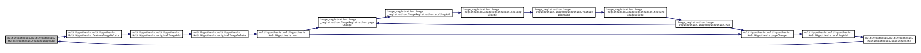
6.16.3.2 addToCustomMenu()

```
def multihypothesis.multihypothesis.MultiHypothesis.addToCustomMenu (
              self )
```

6.16.3.3 featureImageAdd()

```
def multihypothesis.multihypothesis.MultiHypothesis.featureImageAdd (
              self )
```

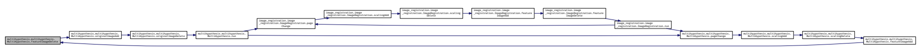
Here is the call graph for this function:



6.16.3.4 featureImageDelete()

```
def multihypothesis.multihypothesis.MultiHypothesis.featureImageDelete (
              self )
```

Here is the call graph for this function:

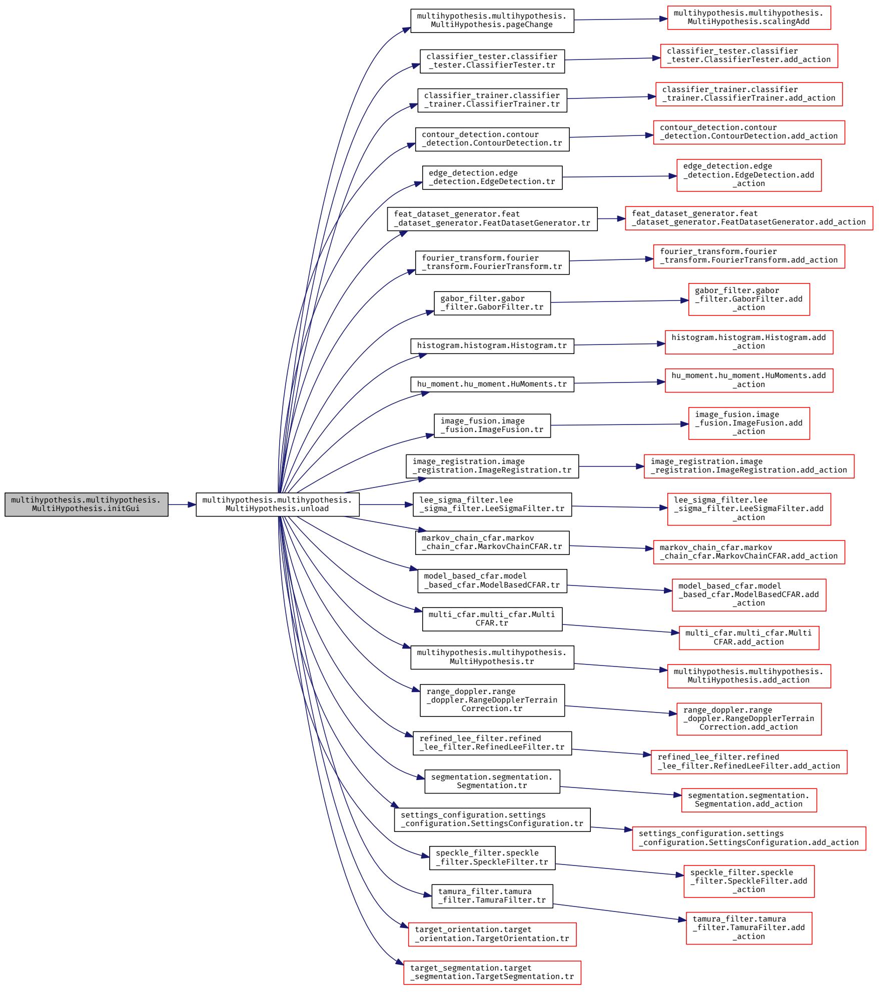


6.16.3.5 initGui()

```
def multihypothesis.multihypothesis.MultiHypothesis.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

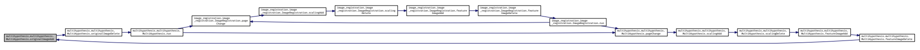
Here is the call graph for this function:


multihypothesis.multihypothesis.MultiHypothesis.initGui
multihypothesis.multihypothesis.MultiHypothesis.unload
multihypothesis.multihypothesis.MultiHypothesis.pageChange
multihypothesis.multihypothesis.MultiHypothesis.scalingAdd
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr

6.16.3.6 originalImageAdd()

```
def multihypothesis.multihypothesis.MultiHypothesis.originalImageAdd (
              self )
```

Here is the call graph for this function:



6.16.3.7 originalImageDelete()

```
def multihypothesis.multihypothesis.MultiHypothesis.originalImageDelete (
              self )
```

Here is the call graph for this function:

6.16.3.8 pageChange()

```
def multihypothesis.multihypothesis.MultiHypothesis.pageChange (
              self,
              pagesToChange )
```

Here is the call graph for this function:

6.16.3.9 run()

```
def multihypothesis.multihypothesis.MultiHypothesis.run (
              self )
```

Run method that performs all the real work.

Here is the call graph for this function:

6.16.3.10 scalingAdd()

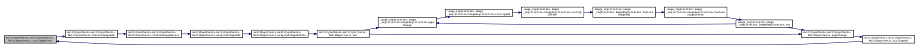
```
def multihypothesis.multihypothesis.MultiHypothesis.scalingAdd (
              self )
```

Here is the call graph for this function:

6.16.3.11 scalingDelete()

```
def multihypothesis.multihypothesis.MultiHypothesis.scalingDelete (
              self )
```

Here is the call graph for this function:


multihypothesis.multihypothesis. MultiHypothesis.scalingDelete
multihypothesis.multihypothesis. MultiHypothesis.featureImageAdd
multihypothesis.multihypothesis. MultiHypothesis.featureImageDelete
multihypothesis.multihypothesis. MultiHypothesis.originalImageAdd
multihypothesis.multihypothesis. MultiHypothesis.originalImageDelete
multihypothesis.multihypothesis. MultiHypothesis.run
image_registration.image _registration.ImageRegistration.page Change
image_registration.image _registration.ImageRegistration.scalingAdd
image_registration.image _registration.ImageRegistration.scaling Delete
image_registration.image _registration.ImageRegistration.feature ImageAdd
image_registration.image _registration.ImageRegistration.feature ImageDelete
image_registration.image _registration.ImageRegistration.run
multihypothesis.multihypothesis. MultiHypothesis.pageChange
multihypothesis.multihypothesis. MultiHypothesis.scalingAdd

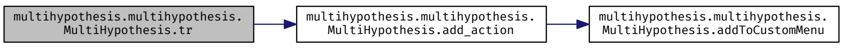
6.16.3.12 tr()

```
def multihypothesis.multihypothesis.MultiHypothesis.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

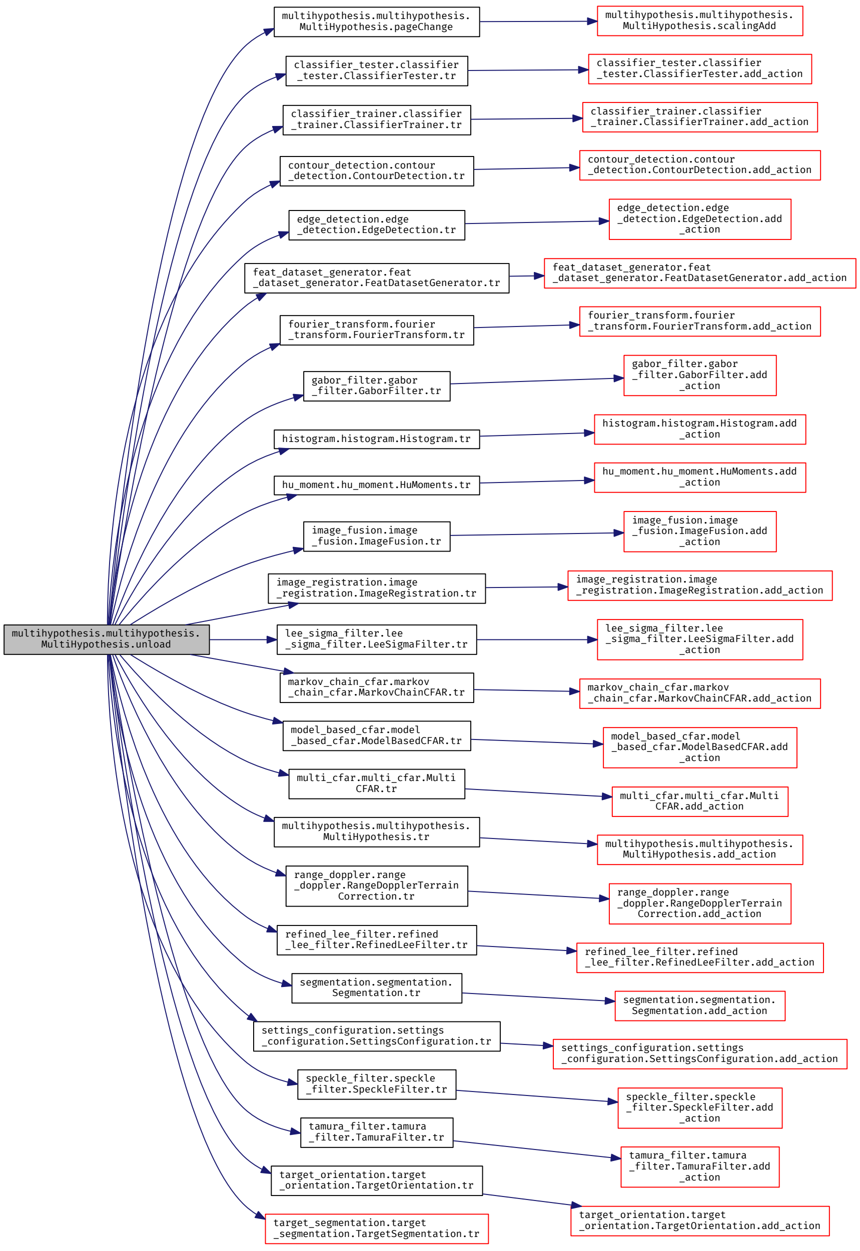

multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
multihypothesis.multihypothesis. MultiHypothesis.addToCustomMenu

6.16.3.13 unload()

```
def multihypothesis.multihypothesis.MultiHypothesis.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


multihypothesis.multihypothesis.MultiHypothesis.unload
multihypothesis.multihypothesis.MultiHypothesis.pageChange
multihypothesis.multihypothesis.MultiHypothesis.scalingAdd
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.tr

6.16.4 Member Data Documentation

6.16.4.1 action

```
multihypothesis.multihypothesis.MultiHypothesis.action
```

6.16.4.2 actions

`multihypothesis.multihypothesis.MultiHypothesis.actions`

6.16.4.3 configContents

`multihypothesis.multihypothesis.MultiHypothesis.configContents`

6.16.4.4 dlg

`multihypothesis.multihypothesis.MultiHypothesis.dlg`

6.16.4.5 featureImagePairs

`multihypothesis.multihypothesis.MultiHypothesis.featureImagePairs`

6.16.4.6 first_start

`multihypothesis.multihypothesis.MultiHypothesis.first_start`

6.16.4.7 iface

`multihypothesis.multihypothesis.MultiHypothesis.iface`

6.16.4.8 menu

`multihypothesis.multihypothesis.MultiHypothesis.menu`

6.16.4.9 originalImagePairs

`multihypothesis.multihypothesis.MultiHypothesis.originalImagePairs`

6.16.4.10 output_dialog

`multihypothesis.multihypothesis.MultiHypothesis.output_dialog`

6.16.4.11 plugin_dir

`multihypothesis.multihypothesis.MultiHypothesis.plugin_dir`

6.16.4.12 scalingPairs

`multihypothesis.multihypothesis.MultiHypothesis.scalingPairs`

6.16.4.13 translator

`multihypothesis.multihypothesis.MultiHypothesis.translator`

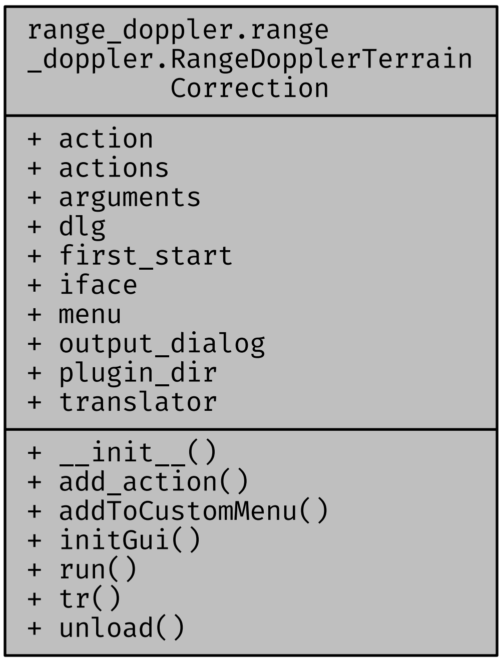
The documentation for this class was generated from the following file:

- multihypothesis.py

6.17 range_doppler.range_doppler.RangeDopplerTerrainCorrection Class Reference

QGIS Plugin Implementation.

Collaboration diagram for range_doppler.range_doppler.RangeDopplerTerrainCorrection:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments

- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- translator

6.17.1 Detailed Description

QGIS Plugin Implementation.

6.17.2 Constructor & Destructor Documentation

6.17.2.1 __init__()

```
def range_doppler.range_doppler.RangeDopplerTerrainCorrection.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.17.3 Member Function Documentation

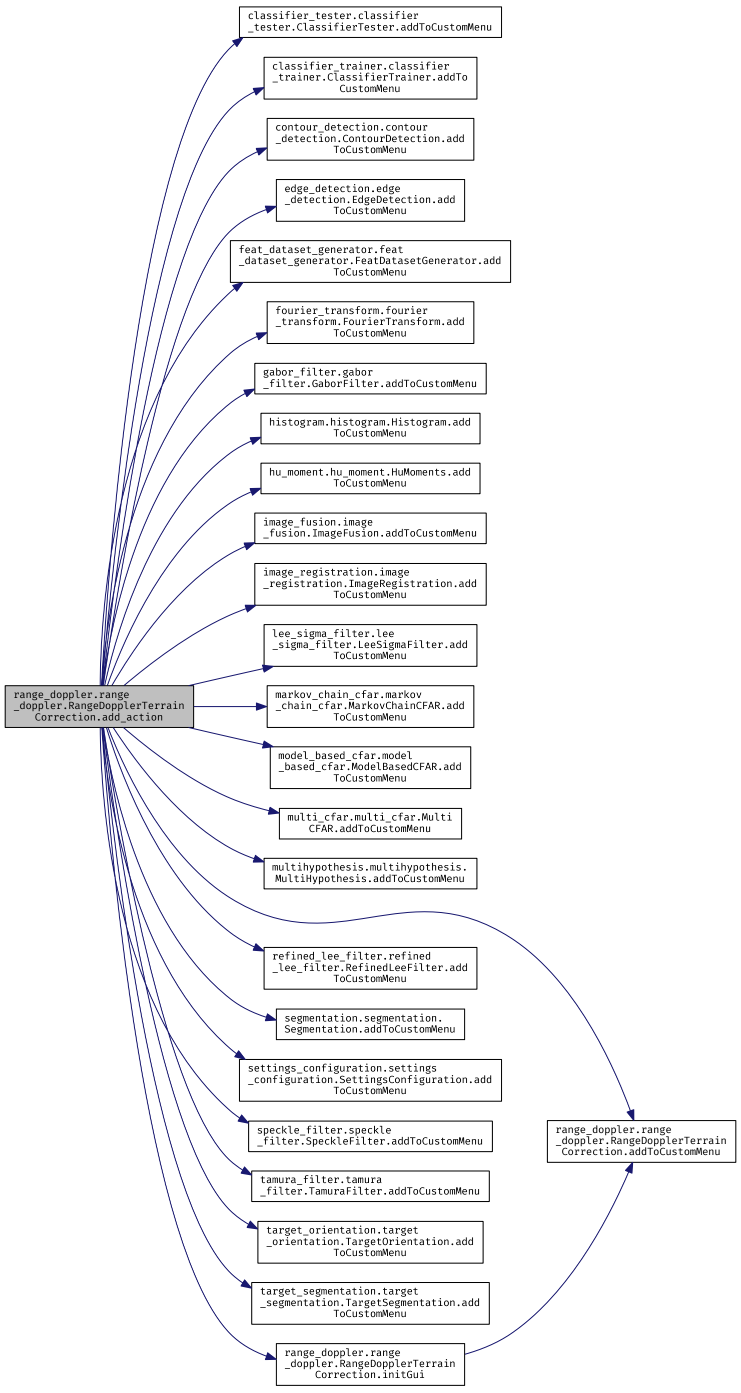
6.17.3.1 add_action()

```
def range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
:param icon_path: Path to the icon for this action. Can be a resource
    path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
:type icon_path: str

:param text: Text that should be shown in menu items for this action.
:type text: str

:param callback: Function to be called when the action is triggered.
:type callback: function

:param enabled_flag: A flag indicating if the action should be enabled
    by default. Defaults to True.
:type enabled_flag: bool

:param add_to_menu: Flag indicating whether the action should also
    be added to the menu. Defaults to True.
:type add_to_menu: bool

:param add_to_toolbar: Flag indicating whether the action should also
    be added to the toolbar. Defaults to True.
:type add_to_toolbar: bool

:param status_tip: Optional text to show in a popup when mouse pointer
    hovers over the action.
:type status_tip: str

:param parent: Parent widget for the new action. Defaults None.
:type parent: QWidget

:param whats_this: Optional text to show in the status bar when the
    mouse pointer hovers over the action.

:returns: The action that was created. Note that the action is also
    added to self.actions list.
:rtype: QAction
```

Here is the call graph for this function:


range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
classifier_tester.classifier_tester.ClassifierTester.addToCustomMenu
classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu
contour_detection.contour_detection.ContourDetection.addToCustomMenu
edge_detection.edge_detection.EdgeDetection.addToCustomMenu
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.addToCustomMenu
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu
histogram.histogram.Histogram.addToCustomMenu
hu_moment.hu_moment.HuMoments.addToCustomMenu
image_fusion.image_fusion.ImageFusion.addToCustomMenu
image_registration.image_registration.ImageRegistration.addToCustomMenu
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu
model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu
multi_cfar.multi_cfar.MultiCFAR.addToCustomMenu
multihypothesis.multihypothesis.MultiHypothesis.addToCustomMenu
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu
segmentation.segmentation.Segmentation.addToCustomMenu
settings_configuration.settings_configuration.SettingsConfiguration.addToCustomMenu
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu
tamura_filter.tamura_filter.TamuraFilter.addToCustomMenu
target_orientation.target_orientation.TargetOrientation.addToCustomMenu
target_segmentation.target_segmentation.TargetSegmentation.addToCustomMenu
range_doppler.range_doppler.RangeDopplerTerrainCorrection.initGui
range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu

6.17.3.2 addToCustomMenu()

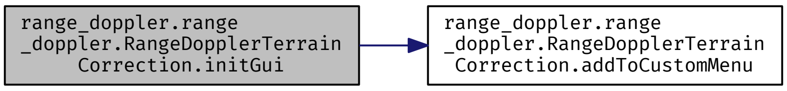
```
def range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu (
              self )
```

6.17.3.3 initGui()

```
def range_doppler.range_doppler.RangeDopplerTerrainCorrection.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


range_doppler.range_doppler.RangeDopplerTerrainCorrection.initGui
range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu

6.17.3.4 run()

```
def range_doppler.range_doppler.RangeDopplerTerrainCorrection.run (
              self )
```

Run method that performs all the real work.

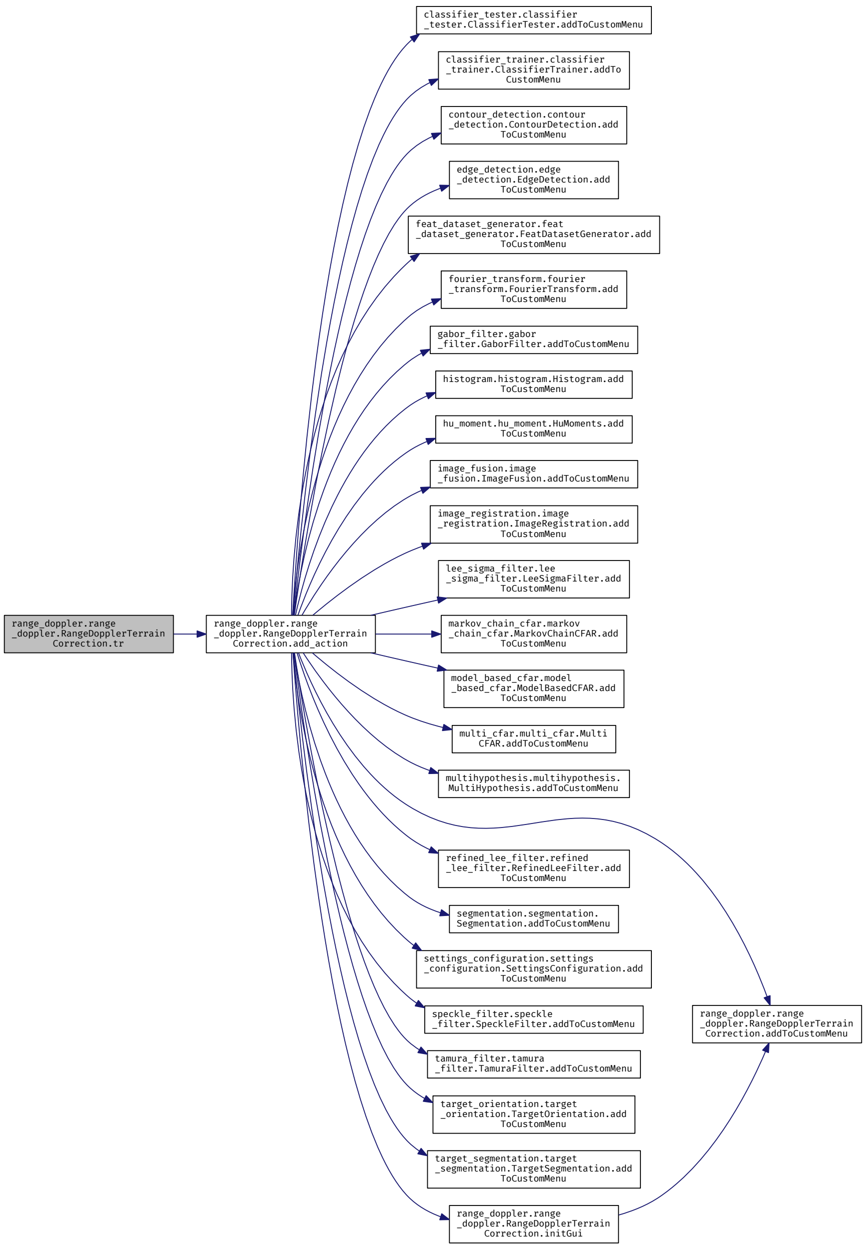
6.17.3.5 tr()

```
def range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:


range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
classifier_tester.classifier_tester.ClassifierTester.addToCustomMenu
classifier_trainer.classifier_trainer.ClassifierTrainer.addToCustomMenu
contour_detection.contour_detection.ContourDetection.addToCustomMenu
edge_detection.edge_detection.EdgeDetection.addToCustomMenu
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.addToCustomMenu
fourier_transform.fourier_transform.FourierTransform.addToCustomMenu
gabor_filter.gabor_filter.GaborFilter.addToCustomMenu
histogram.histogram.Histogram.addToCustomMenu
hu_moment.hu_moment.HuMoments.addToCustomMenu
image_fusion.image_fusion.ImageFusion.addToCustomMenu
image_registration.image_registration.ImageRegistration.addToCustomMenu
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.addToCustomMenu
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.addToCustomMenu
model_based_cfar.model_based_cfar.ModelBasedCFAR.addToCustomMenu
multi_cfar.multi_cfar.MultiCFAR.addToCustomMenu
multihypothesis.multihypothesis.MultiHypothesis.addToCustomMenu
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu
segmentation.segmentation.Segmentation.addToCustomMenu
settings_configuration.settings_configuration.SettingsConfiguration.addToCustomMenu
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu
tamura_filter.tamura_filter.TamuraFilter.addToCustomMenu
target_orientation.target_orientation.TargetOrientation.addToCustomMenu
target_segmentation.target_segmentation.TargetSegmentation.addToCustomMenu
range_doppler.range_doppler.RangeDopplerTerrainCorrection.initGui
range_doppler.range_doppler.RangeDopplerTerrainCorrection.addToCustomMenu

6.17.3.6 unload()

```
def range_doppler.range_doppler.RangeDopplerTerrainCorrection.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

6.17.4 Member Data Documentation

6.17.4.1 action

`range_doppler.range_doppler.RangeDopplerTerrainCorrection.action`

6.17.4.2 actions

`range_doppler.range_doppler.RangeDopplerTerrainCorrection.actions`

6.17.4.3 arguments

`range_doppler.range_doppler.RangeDopplerTerrainCorrection.arguments`

6.17.4.4 dlg

`range_doppler.range_doppler.RangeDopplerTerrainCorrection.dlg`

6.17.4.5 first_start

`range_doppler.range_doppler.RangeDopplerTerrainCorrection.first_start`

6.17.4.6 iface

`range_doppler.range_doppler.RangeDopplerTerrainCorrection.iface`

6.17.4.7 menu

`range_doppler.range_doppler.RangeDopplerTerrainCorrection.menu`

6.17.4.8 output_dialog

```
range_doppler.range_doppler.RangeDopplerTerrainCorrection.output_dialog
```

6.17.4.9 plugin_dir

```
range_doppler.range_doppler.RangeDopplerTerrainCorrection.plugin_dir
```

6.17.4.10 translator

```
range_doppler.range_doppler.RangeDopplerTerrainCorrection.translator
```

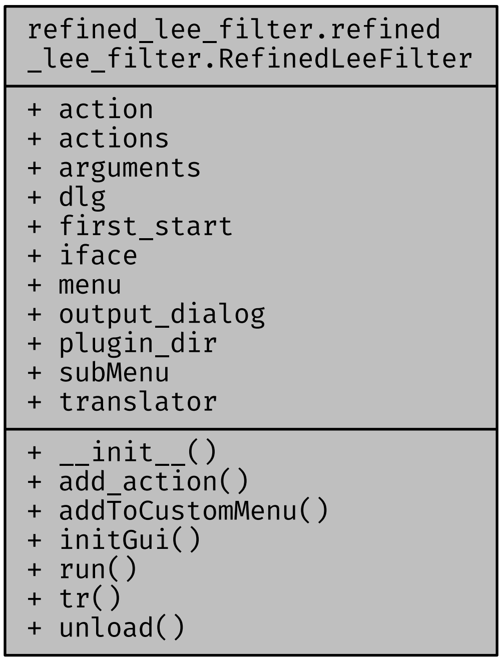
The documentation for this class was generated from the following file:

- range_doppler.py

6.18 refined_lee_filter.refined_lee_filter.RefinedLeeFilter Class Reference

QGIS Plugin Implementation.

Collaboration diagram for refined_lee_filter.refined_lee_filter.RefinedLeeFilter:



Public Member Functions

- def __init__ (self, iface)
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

    Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

    Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

    Run method that performs all the real work.
- def tr (self, message)
- def unload (self)

    Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.18.1 Detailed Description

QGIS Plugin Implementation.

6.18.2 Constructor & Destructor Documentation

6.18.2.1 __init__()

```
def refined_lee_filter.refined_lee_filter.RefinedLeeFilter.__init__ (
              self,
              iface )
```

6.18.3 Member Function Documentation

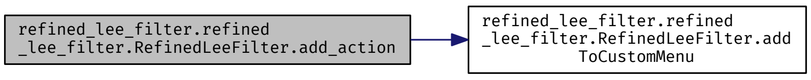
6.18.3.1 add_action()

```
def refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
    :param icon_path: Path to the icon for this action. Can be a resource
        path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
    :type icon_path: str

    :param text: Text that should be shown in menu items for this action.
    :type text: str

    :param callback: Function to be called when the action is triggered.
    :type callback: function

    :param enabled_flag: A flag indicating if the action should be enabled
        by default. Defaults to True.
    :type enabled_flag: bool

    :param add_to_menu: Flag indicating whether the action should also
        be added to the menu. Defaults to True.
    :type add_to_menu: bool

    :param add_to_toolbar: Flag indicating whether the action should also
        be added to the toolbar. Defaults to True.
    :type add_to_toolbar: bool

    :param status_tip: Optional text to show in a popup when mouse pointer
        hovers over the action.
    :type status_tip: str

    :param parent: Parent widget for the new action. Defaults None.
    :type parent: QWidget

    :param whats_this: Optional text to show in the status bar when the
        mouse pointer hovers over the action.

    :returns: The action that was created. Note that the action is also
        added to self.actions list.
    :rtype: QAction
```

Here is the call graph for this function:


refined_lee_filter.refined
_lee_filter.RefinedLeeFilter.add_action
refined_lee_filter.refined
_lee_filter.RefinedLeeFilter.add
ToCustomMenu

6.18.3.2 addToCustomMenu()

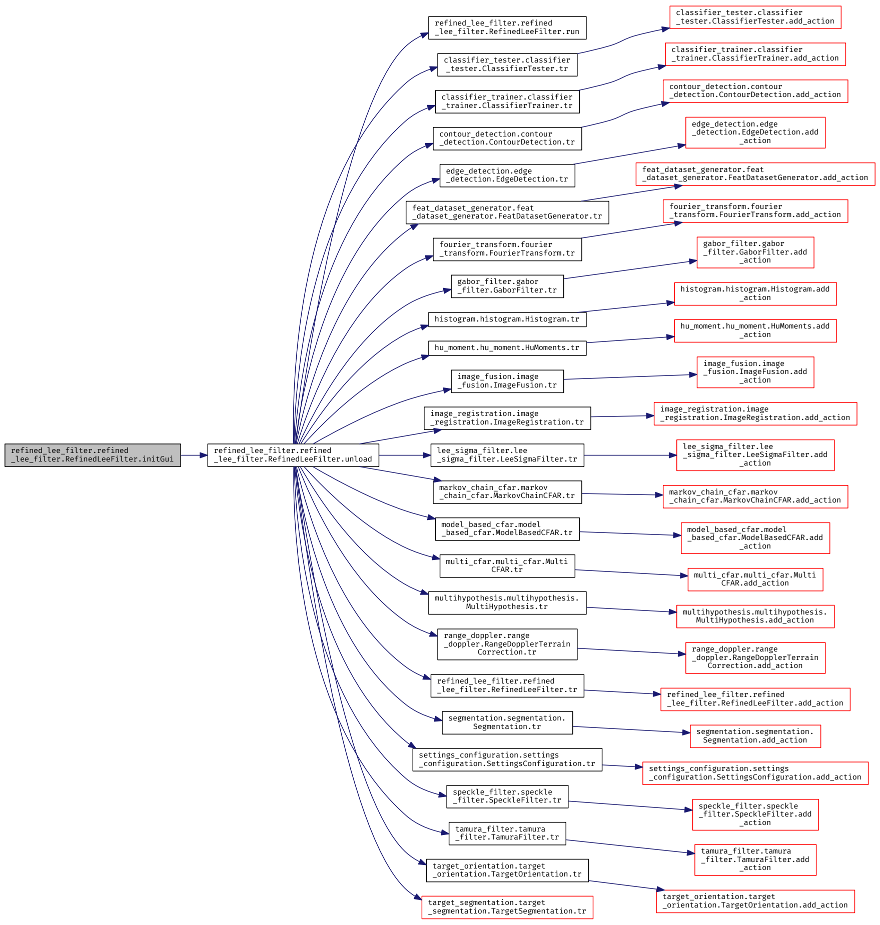
```
def refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu (
                self )
```

6.18.3.3 initGui()

```
def refined_lee_filter.refined_lee_filter.RefinedLeeFilter.initGui (
                self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


refined_lee_filter.refined _lee_filter.RefinedLeeFilter.initGui
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.unload
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
contour_detection.contour _detection.ContourDetection.tr
edge_detection.edge _detection.EdgeDetection.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier _transform.FourierTransform.tr
gabor_filter.gabor _filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image _fusion.ImageFusion.tr
image_registration.image _registration.ImageRegistration.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.Multi CFAR.tr
multihypothesis.multihypothesis. MultiHypothesis.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
segmentation.segmentation. Segmentation.tr
settings_configuration.settings _configuration.SettingsConfiguration.tr
speckle_filter.speckle _filter.SpeckleFilter.tr
tamura_filter.tamura _filter.TamuraFilter.tr
target_orientation.target _orientation.TargetOrientation.tr
target_segmentation.target _segmentation.TargetSegmentation.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.add_action

6.18.3.4 run()

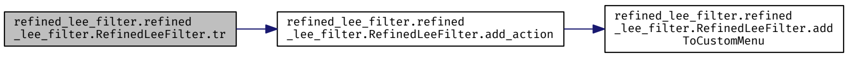
```
def refined_lee_filter.refined_lee_filter.RefinedLeeFilter.run (
                self )
```

Run method that performs all the real work.

6.18.3.5 tr()

```
def refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr (
              self,
              message )
```

Here is the call graph for this function:

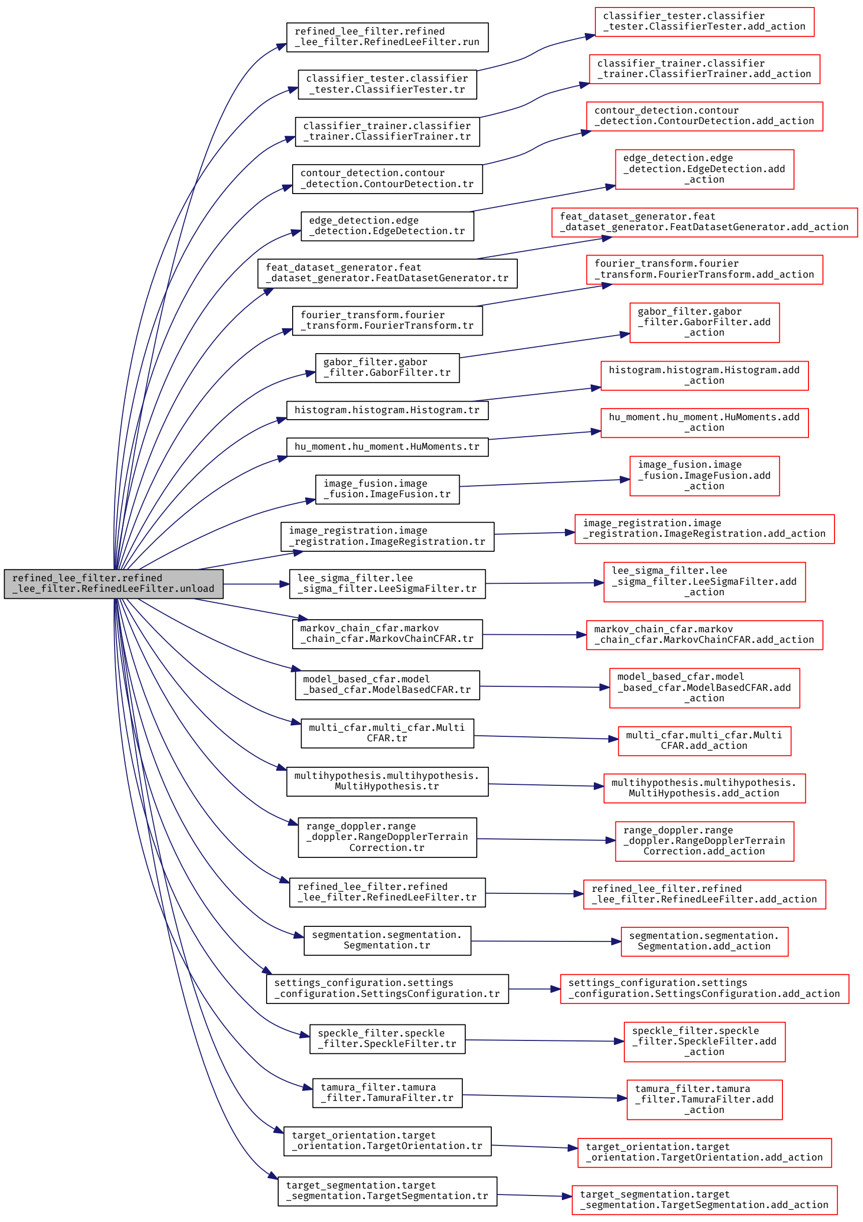

refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.addToCustomMenu

6.18.3.6 unload()

```
def refined_lee_filter.refined_lee_filter.RefinedLeeFilter.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


refined_lee_filter.refined_lee_filter.RefinedLeeFilter.unload
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.run
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.add_action
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.add_action
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.add_action
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.add_action
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.add_action
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.add_action
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.add_action
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.add_action
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.add_action
target_segmentation.target_segmentation.TargetSegmentation.tr

6.18.4 Member Data Documentation

6.18.4.1 action

```
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.action
```

6.18.4.2 actions

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.actions`

6.18.4.3 arguments

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.arguments`

6.18.4.4 dlg

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.dlg`

6.18.4.5 first_start

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.first_start`

6.18.4.6 iface

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.iface`

6.18.4.7 menu

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.menu`

6.18.4.8 output_dialog

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.output_dialog`

6.18.4.9 plugin_dir

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.plugin_dir`

6.18.4.10 subMenu

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.subMenu`

6.18.4.11 translator

`refined_lee_filter.refined_lee_filter.RefinedLeeFilter.translator`

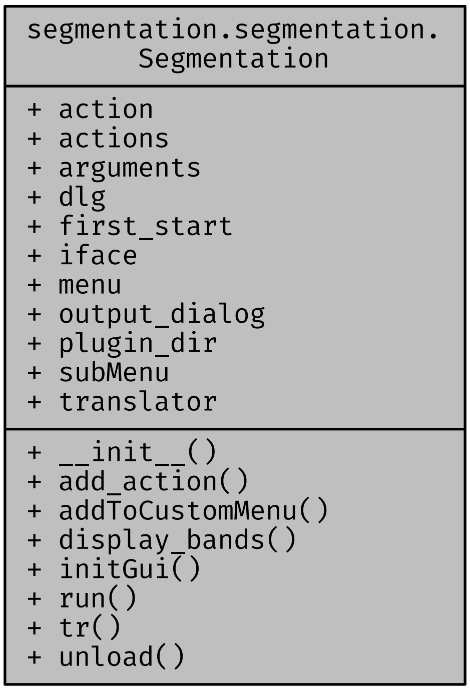
The documentation for this class was generated from the following file:

- refined_lee_filter.py

6.19 segmentation.segmentation.Segmentation Class Reference

QGIS Plugin Implementation.

Collaboration diagram for segmentation.segmentation.Segmentation:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def display_bands (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.19.1 Detailed Description

QGIS Plugin Implementation.

6.19.2 Constructor & Destructor Documentation

6.19.2.1 __init__()

```
def segmentation.segmentation.Segmentation.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.19.3 Member Function Documentation

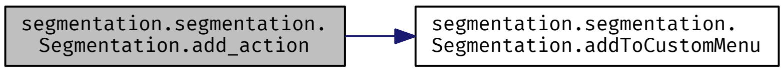
6.19.3.1 add_action()

```
def segmentation.segmentation.Segmentation.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
:param icon_path: Path to the icon for this action. Can be a resource
    path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
:type icon_path: str

:param text: Text that should be shown in menu items for this action.
:type text: str

:param callback: Function to be called when the action is triggered.
:type callback: function

:param enabled_flag: A flag indicating if the action should be enabled
    by default. Defaults to True.
:type enabled_flag: bool

:param add_to_menu: Flag indicating whether the action should also
    be added to the menu. Defaults to True.
:type add_to_menu: bool

:param add_to_toolbar: Flag indicating whether the action should also
    be added to the toolbar. Defaults to True.
:type add_to_toolbar: bool

:param status_tip: Optional text to show in a popup when mouse pointer
    hovers over the action.
:type status_tip: str

:param parent: Parent widget for the new action. Defaults None.
:type parent: QWidget

:param whats_this: Optional text to show in the status bar when the
    mouse pointer hovers over the action.

:returns: The action that was created. Note that the action is also
    added to self.actions list.
:rtype: QAction
```

Here is the call graph for this function:


segmentation.segmentation.
Segmentation.add_action
segmentation.segmentation.
Segmentation.addToCustomMenu

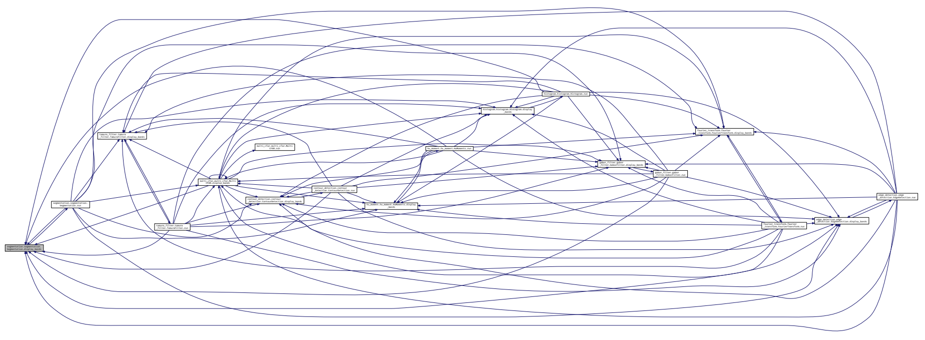
6.19.3.2 addToCustomMenu()

```
def segmentation.segmentation.Segmentation.addToCustomMenu (
              self )
```

6.19.3.3 display_bands()

```
def segmentation.segmentation.Segmentation.display_bands (
              self )
```

Here is the call graph for this function:

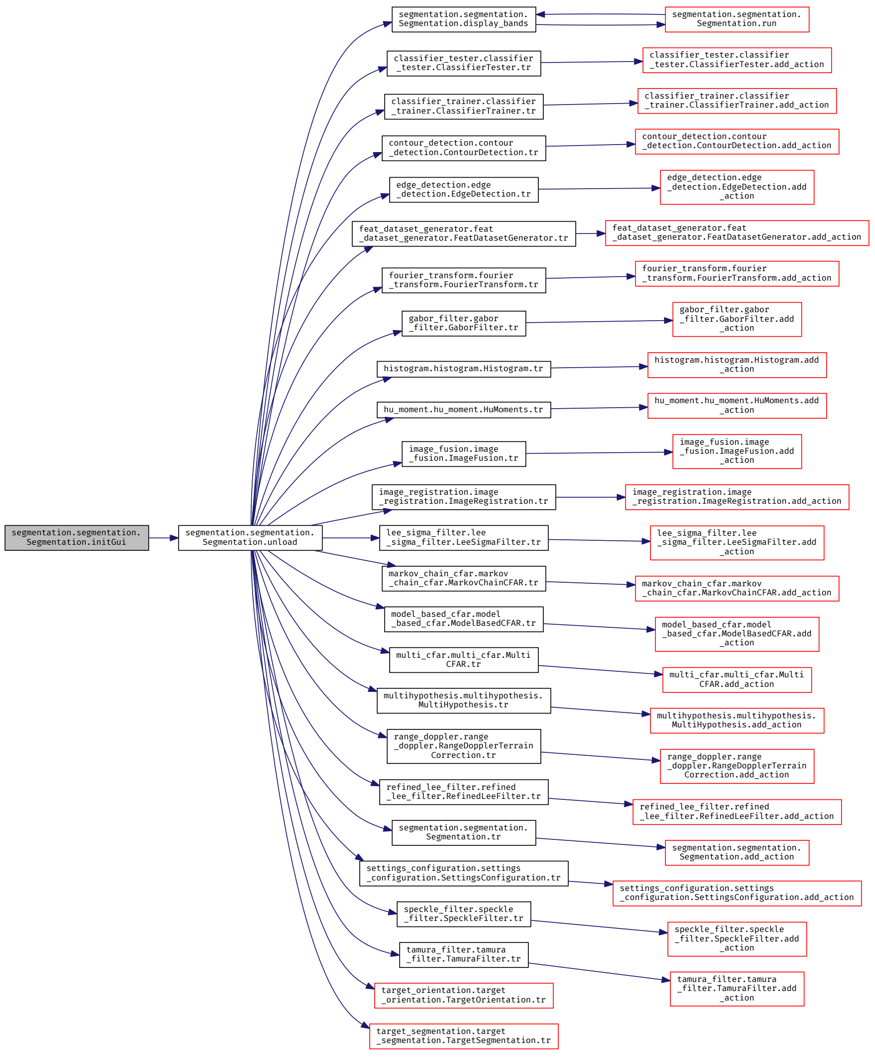


6.19.3.4 initGui()

```
def segmentation.segmentation.Segmentation.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:

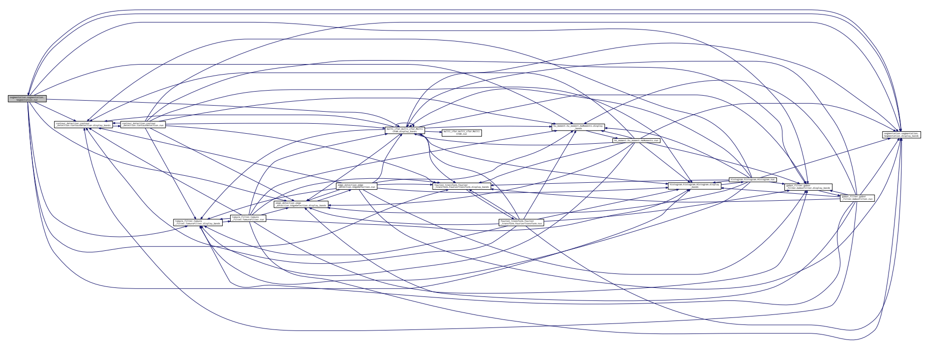

segmentation.segmentation.Segmentation.initGui
segmentation.segmentation.Segmentation.unload
segmentation.segmentation.Segmentation.display_bands
segmentation.segmentation.Segmentation.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr

6.19.3.5 run()

```
def segmentation.segmentation.Segmentation.run (
                self )
```

Run method that performs all the real work.

Here is the call graph for this function:



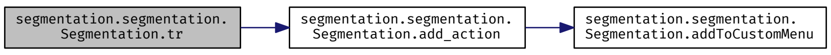
6.19.3.6 tr()

```
def segmentation.segmentation.Segmentation.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

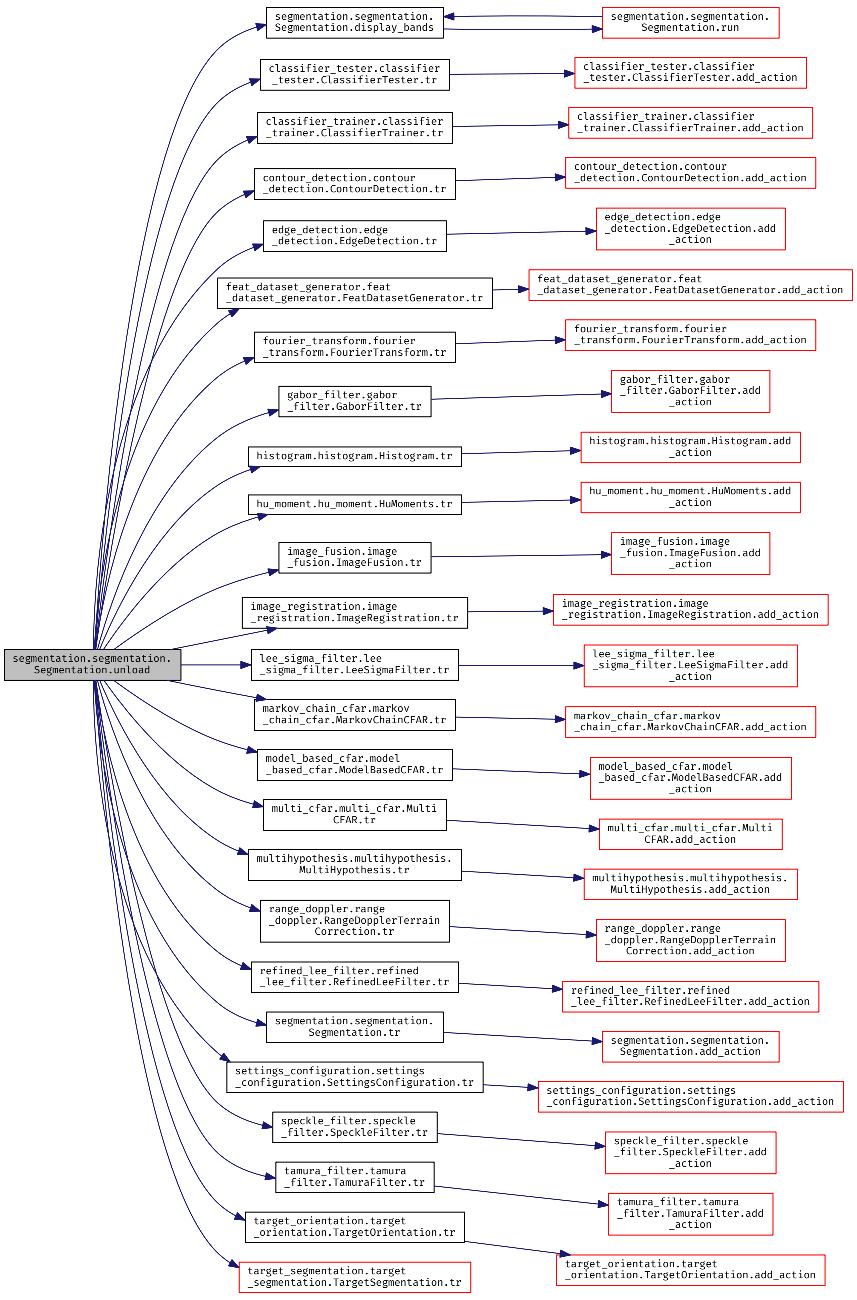

segmentation.segmentation.
Segmentation.tr
segmentation.segmentation.
Segmentation.add_action
segmentation.segmentation.
Segmentation.addToCustomMenu

6.19.3.7 unload()

```
def segmentation.segmentation.Segmentation.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


segmentation.segmentation.
Segmentation.unload
segmentation.segmentation.
Segmentation.display_bands
segmentation.segmentation.
Segmentation.run
classifier_tester.classifier
_tester.ClassifierTester.tr
classifier_tester.classifier
_tester.ClassifierTester.add_action
classifier_trainer.classifier
_trainer.ClassifierTrainer.tr
classifier_trainer.classifier
_trainer.ClassifierTrainer.add_action
contour_detection.contour
_detection.ContourDetection.tr
contour_detection.contour
_detection.ContourDetection.add_action
edge_detection.edge
_detection.EdgeDetection.tr
edge_detection.edge
_detection.EdgeDetection.add
_action
feat_dataset_generator.feat
_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat
_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier
_transform.FourierTransform.tr
fourier_transform.fourier
_transform.FourierTransform.add_action
gabor_filter.gabor
_filter.GaborFilter.tr
gabor_filter.gabor
_filter.GaborFilter.add
_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add
_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add
_action
image_fusion.image
_fusion.ImageFusion.tr
image_fusion.image
_fusion.ImageFusion.add
_action
image_registration.image
_registration.ImageRegistration.tr
image_registration.image
_registration.ImageRegistration.add_action
lee_sigma_filter.lee
_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee
_sigma_filter.LeeSigmaFilter.add
_action
markov_chain_cfar.markov
_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov
_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model
_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model
_based_cfar.ModelBasedCFAR.add
_action
multi_cfar.multi_cfar.Multi
CFAR.tr
multi_cfar.multi_cfar.Multi
CFAR.add_action
multihypothesis.multihypothesis.
MultiHypothesis.tr
multihypothesis.multihypothesis.
MultiHypothesis.add_action
range_doppler.range
_doppler.RangeDopplerTerrain
Correction.tr
range_doppler.range
_doppler.RangeDopplerTerrain
Correction.add_action
refined_lee_filter.refined
_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined
_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.
Segmentation.tr
segmentation.segmentation.
Segmentation.add_action
settings_configuration.settings
_configuration.SettingsConfiguration.tr
settings_configuration.settings
_configuration.SettingsConfiguration.add_action
speckle_filter.speckle
_filter.SpeckleFilter.tr
speckle_filter.speckle
_filter.SpeckleFilter.add
_action
tamura_filter.tamura
_filter.TamuraFilter.tr
tamura_filter.tamura
_filter.TamuraFilter.add
_action
target_orientation.target
_orientation.TargetOrientation.tr
target_orientation.target
_orientation.TargetOrientation.add_action
target_segmentation.target
_segmentation.TargetSegmentation.tr

6.19.4 Member Data Documentation

6.19.4.1 action

`segmentation.segmentation.Segmentation.action`

6.19.4.2 actions

```
segmentation.segmentation.Segmentation.actions
```

6.19.4.3 arguments

```
segmentation.segmentation.Segmentation.arguments
```

6.19.4.4 dlg

```
segmentation.segmentation.Segmentation.dlg
```

6.19.4.5 first_start

```
segmentation.segmentation.Segmentation.first_start
```

6.19.4.6 iface

```
segmentation.segmentation.Segmentation.iface
```

6.19.4.7 menu

```
segmentation.segmentation.Segmentation.menu
```

6.19.4.8 output_dialog

```
segmentation.segmentation.Segmentation.output_dialog
```

6.19.4.9 plugin_dir

```
segmentation.segmentation.Segmentation.plugin_dir
```

6.19.4.10 subMenu

```
segmentation.segmentation.Segmentation.subMenu
```

6.19.4.11 translator

```
segmentation.segmentation.Segmentation.translator
```

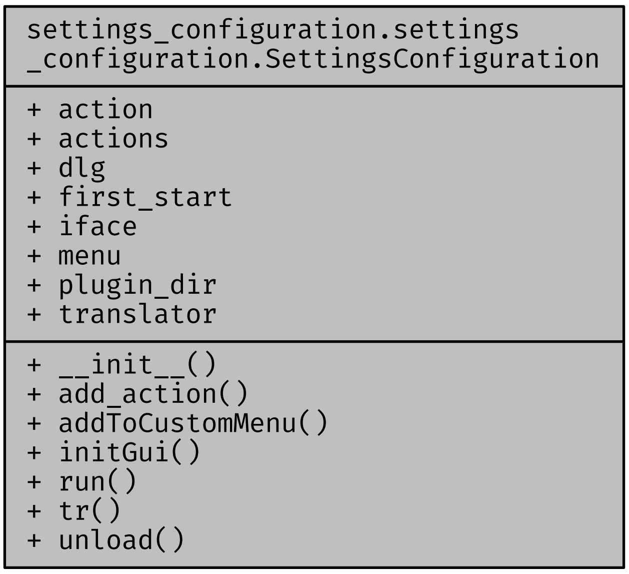
The documentation for this class was generated from the following file:

- segmentation.py

6.20 settings_configuration.settings_configuration.Settings↩ Configuration Class Reference

QGIS Plugin Implementation.

Collaboration diagram for settings_configuration.settings_configuration.SettingsConfiguration:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- dlg
- first_start
- iface
- menu
- plugin_dir
- translator

6.20.1 Detailed Description

QGIS Plugin Implementation.

6.20.2 Constructor & Destructor Documentation

6.20.2.1 __init__()

```
def settings_configuration.settings_configuration.SettingsConfiguration.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.20.3 Member Function Documentation

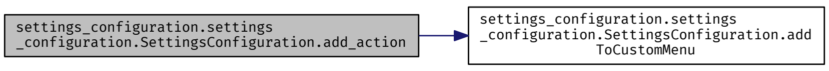
6.20.3.1 add_action()

```
def settings_configuration.settings_configuration.SettingsConfiguration.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


settings_configuration.settings
_configuration.SettingsConfiguration.add_action
settings_configuration.settings
_configuration.SettingsConfiguration.add
ToCustomMenu

6.20.3.2 addToCustomMenu()

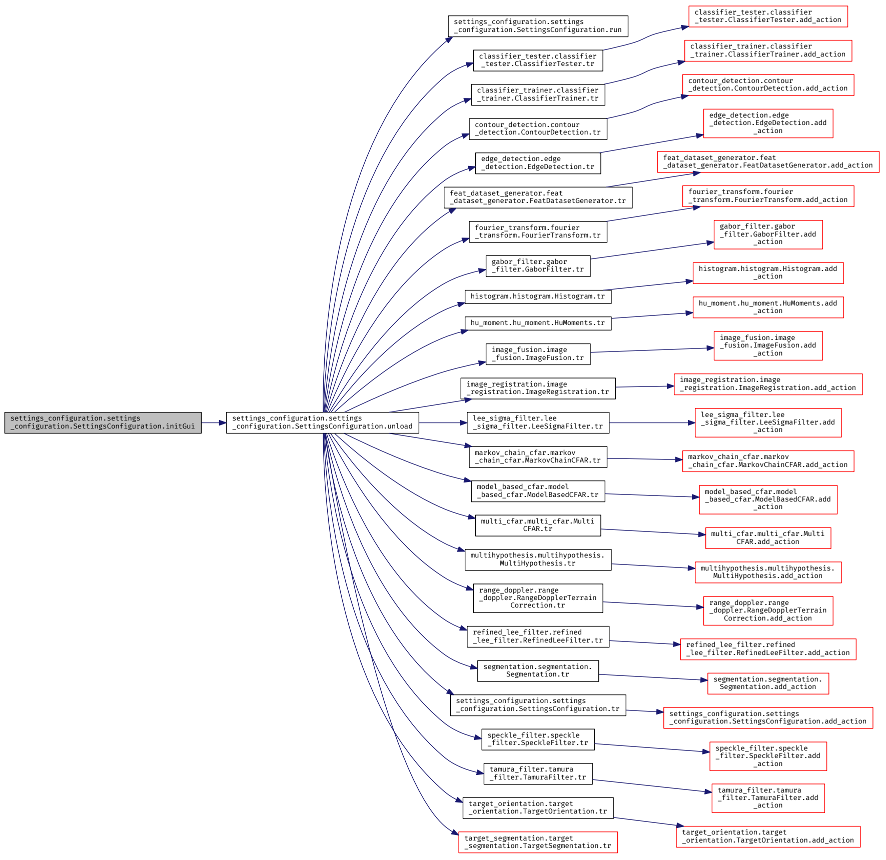
```
def settings_configuration.settings_configuration.SettingsConfiguration.addToCustomMenu (
              self )
```

6.20.3.3 initGui()

```
def settings_configuration.settings_configuration.SettingsConfiguration.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


settings_configuration.settings _configuration.SettingsConfiguration.initGui
settings_configuration.settings _configuration.SettingsConfiguration.unload
settings_configuration.settings _configuration.SettingsConfiguration.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
contour_detection.contour _detection.ContourDetection.tr
edge_detection.edge _detection.EdgeDetection.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier _transform.FourierTransform.tr
gabor_filter.gabor _filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image _fusion.ImageFusion.tr
image_registration.image _registration.ImageRegistration.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.Multi CFAR.tr
multihypothesis.multihypothesis. MultiHypothesis.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
segmentation.segmentation. Segmentation.tr
settings_configuration.settings _configuration.SettingsConfiguration.tr
speckle_filter.speckle _filter.SpeckleFilter.tr
tamura_filter.tamura _filter.TamuraFilter.tr
target_orientation.target _orientation.TargetOrientation.tr
target_segmentation.target _segmentation.TargetSegmentation.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.add_action

6.20.3.4 run()

```
def settings_configuration.settings_configuration.SettingsConfiguration.run (
              self )
```

Run method that performs all the real work.

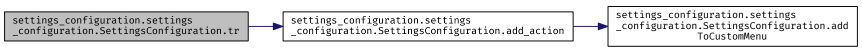
6.20.3.5 tr()

```
def settings_configuration.settings_configuration.SettingsConfiguration.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

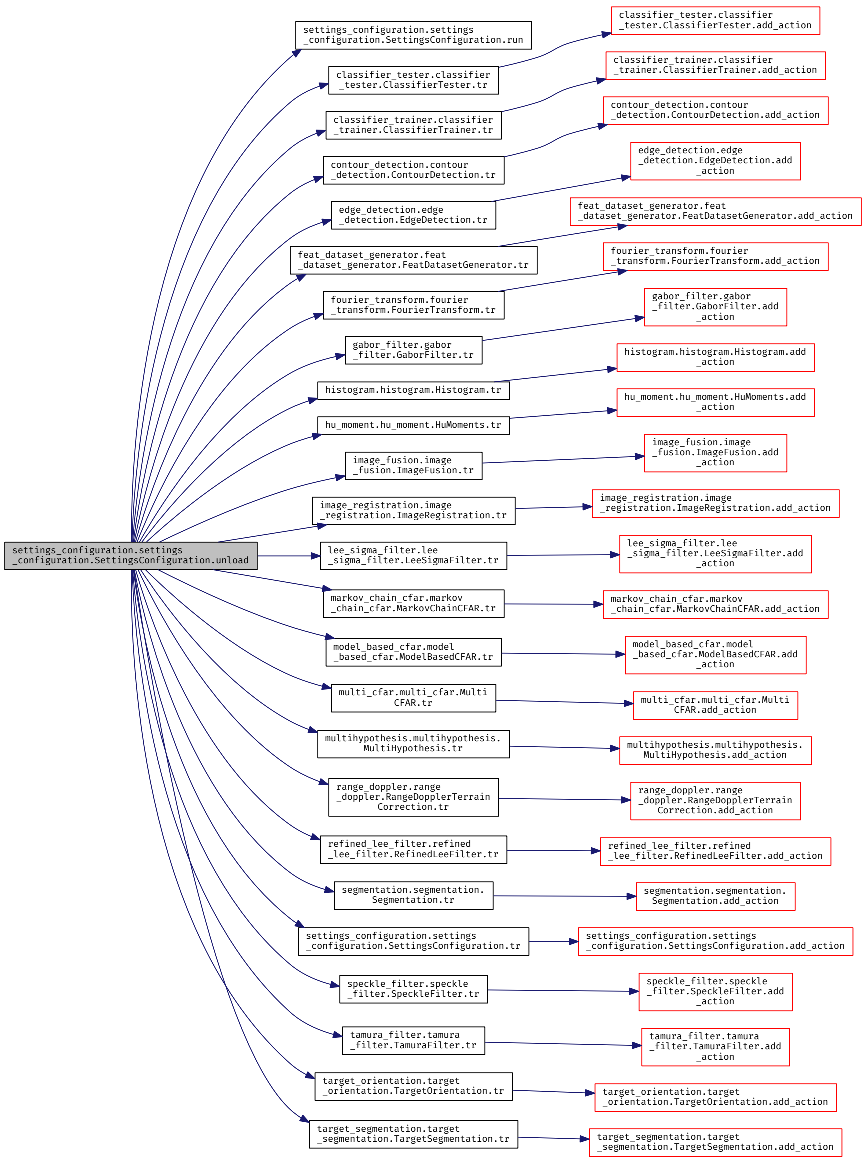

settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
settings_configuration.settings _configuration.SettingsConfiguration.add ToCustomMenu

6.20.3.6 unload()

```
def settings_configuration.settings_configuration.SettingsConfiguration.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


settings_configuration.settings_configuration.SettingsConfiguration.unload
settings_configuration.settings_configuration.SettingsConfiguration.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.add_action

6.20.4 Member Data Documentation

6.20.4.1 action

```
settings_configuration.settings_configuration.SettingsConfiguration.action
```

6.20.4.2 actions

`settings_configuration.settings_configuration.SettingsConfiguration.actions`

6.20.4.3 dlg

`settings_configuration.settings_configuration.SettingsConfiguration.dlg`

6.20.4.4 first_start

`settings_configuration.settings_configuration.SettingsConfiguration.first_start`

6.20.4.5 iface

`settings_configuration.settings_configuration.SettingsConfiguration.iface`

6.20.4.6 menu

`settings_configuration.settings_configuration.SettingsConfiguration.menu`

6.20.4.7 plugin_dir

`settings_configuration.settings_configuration.SettingsConfiguration.plugin_dir`

6.20.4.8 translator

`settings_configuration.settings_configuration.SettingsConfiguration.translator`

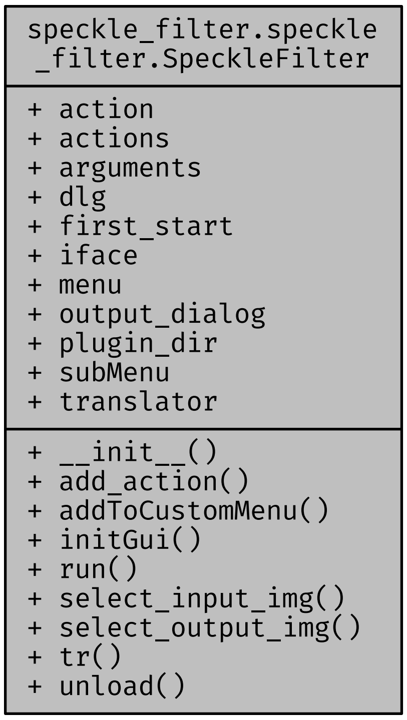
The documentation for this class was generated from the following file:

- settings_configuration.py

6.21 speckle_filter.speckle_filter.SpeckleFilter Class Reference

QGIS Plugin Implementation.

Collaboration diagram for speckle_filter.speckle_filter.SpeckleFilter:



Public Member Functions

- def __init__ (self, iface)

  Constructor.
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def select_input_img (self)
- def select_output_img (self)
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.21.1 Detailed Description

QGIS Plugin Implementation.

6.21.2 Constructor & Destructor Documentation

6.21.2.1 __init__()

```
def speckle_filter.speckle_filter.SpeckleFilter.__init__ (
              self,
              iface )
```

Constructor.

```
   :param iface: An interface instance that will be passed to this class
       which provides the hook by which you can manipulate the QGIS
       application at run time.
   :type iface: QgsInterface
```

6.21.3 Member Function Documentation

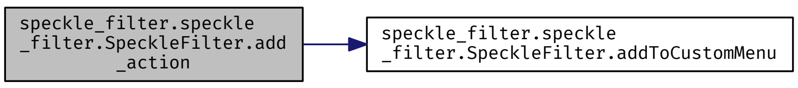
6.21.3.1 add_action()

```
def speckle_filter.speckle_filter.SpeckleFilter.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


speckle_filter.speckle_filter.SpeckleFilter.add_action
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu

6.21.3.2 addToCustomMenu()

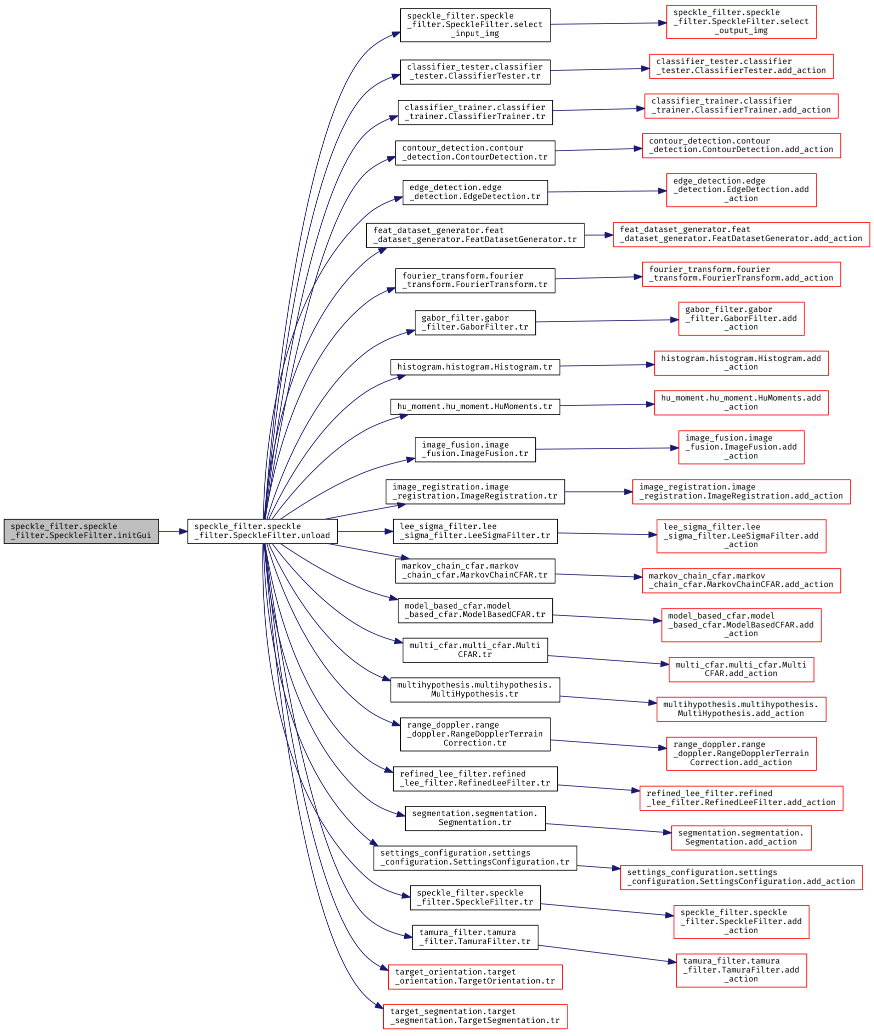
```
def speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu (
              self )
```

6.21.3.3 initGui()

```
def speckle_filter.speckle_filter.SpeckleFilter.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:



speckle_filter.speckle_filter.SpeckleFilter.initGui
speckle_filter.speckle_filter.SpeckleFilter.unload
speckle_filter.speckle_filter.SpeckleFilter.select_input_img
speckle_filter.speckle_filter.SpeckleFilter.select_output_img
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr

6.21.3.4 run()

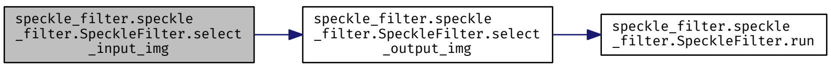
```
def speckle_filter.speckle_filter.SpeckleFilter.run (
              self )
```

Run method that performs all the real work.

6.21.3.5 select_input_img()

```
def speckle_filter.speckle_filter.SpeckleFilter.select_input_img (
              self )
```

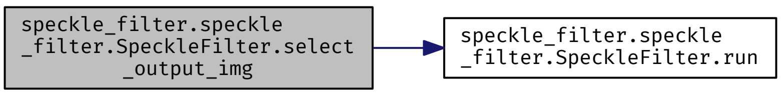
Here is the call graph for this function:


speckle_filter.speckle_filter.SpeckleFilter.select_input_img
speckle_filter.speckle_filter.SpeckleFilter.select_output_img
speckle_filter.speckle_filter.SpeckleFilter.run

6.21.3.6 select_output_img()

```
def speckle_filter.speckle_filter.SpeckleFilter.select_output_img (
              self )
```

Here is the call graph for this function:


speckle_filter.speckle_filter.SpeckleFilter.select_output_img
speckle_filter.speckle_filter.SpeckleFilter.run

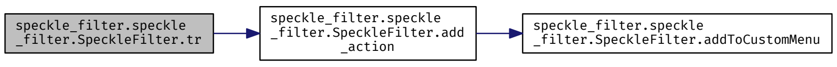
6.21.3.7 tr()

```
def speckle_filter.speckle_filter.SpeckleFilter.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

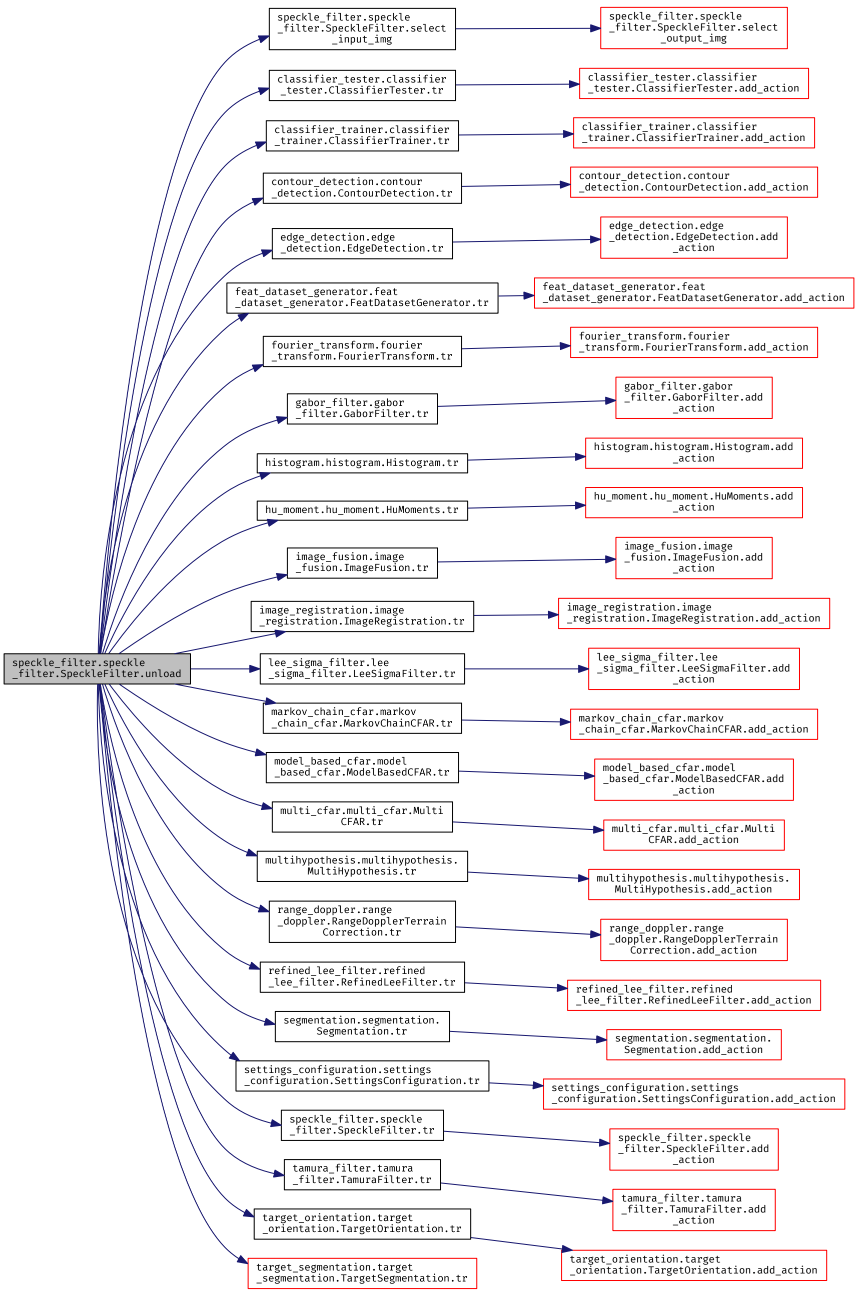

speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
speckle_filter.speckle_filter.SpeckleFilter.addToCustomMenu

6.21.3.8 unload()

```
def speckle_filter.speckle_filter.SpeckleFilter.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


speckle_filter.speckle_filter.SpeckleFilter.unload
speckle_filter.speckle_filter.SpeckleFilter.select_input_img
speckle_filter.speckle_filter.SpeckleFilter.select_output_img
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.tr

6.21.4 Member Data Documentation

6.21.4.1 action

```
speckle_filter.speckle_filter.SpeckleFilter.action
```

6.21.4.2 actions

```
speckle_filter.speckle_filter.SpeckleFilter.actions
```

6.21.4.3 arguments

```
speckle_filter.speckle_filter.SpeckleFilter.arguments
```

6.21.4.4 dlg

```
speckle_filter.speckle_filter.SpeckleFilter.dlg
```

6.21.4.5 first_start

```
speckle_filter.speckle_filter.SpeckleFilter.first_start
```

6.21.4.6 iface

```
speckle_filter.speckle_filter.SpeckleFilter.iface
```

6.21.4.7 menu

```
speckle_filter.speckle_filter.SpeckleFilter.menu
```

6.21.4.8 output_dialog

```
speckle_filter.speckle_filter.SpeckleFilter.output_dialog
```

6.21.4.9 plugin_dir

```
speckle_filter.speckle_filter.SpeckleFilter.plugin_dir
```

6.21.4.10 subMenu

`speckle_filter.speckle_filter.SpeckleFilter.subMenu`

6.21.4.11 translator

`speckle_filter.speckle_filter.SpeckleFilter.translator`

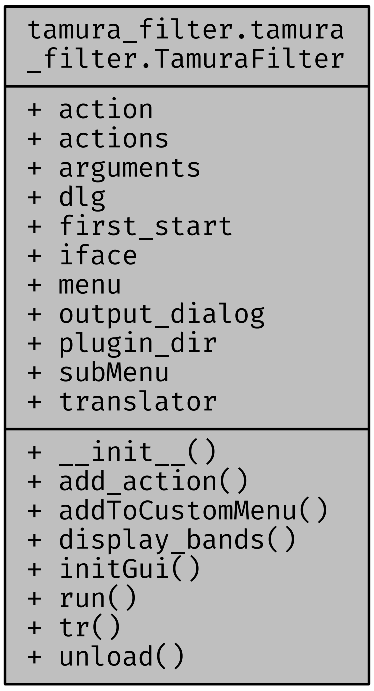
The documentation for this class was generated from the following file:

- speckle_filter.py

6.22 tamura_filter.tamura_filter.TamuraFilter Class Reference

QGIS Plugin Implementation.

Collaboration diagram for tamura_filter.tamura_filter.TamuraFilter:



Public Member Functions

- def __init__ (self, iface)
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def display_bands (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.22.1 Detailed Description

QGIS Plugin Implementation.

6.22.2 Constructor & Destructor Documentation

6.22.2.1 __init__()

```
def tamura_filter.tamura_filter.TamuraFilter.__init__ (
              self,
              iface )
```

6.22.3 Member Function Documentation

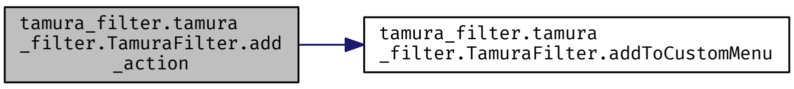
6.22.3.1 add_action()

```
def tamura_filter.tamura_filter.TamuraFilter.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:



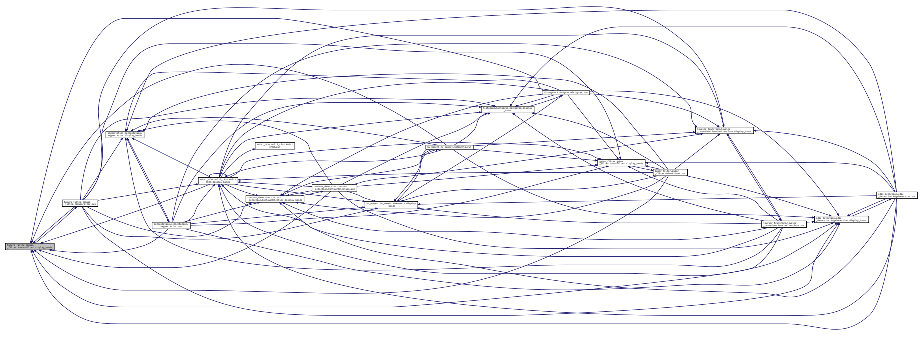
6.22.3.2 addToCustomMenu()

```
def tamura_filter.tamura_filter.TamuraFilter.addToCustomMenu (
              self )
```

6.22.3.3 display_bands()

```
def tamura_filter.tamura_filter.TamuraFilter.display_bands (
              self )
```

Here is the call graph for this function:

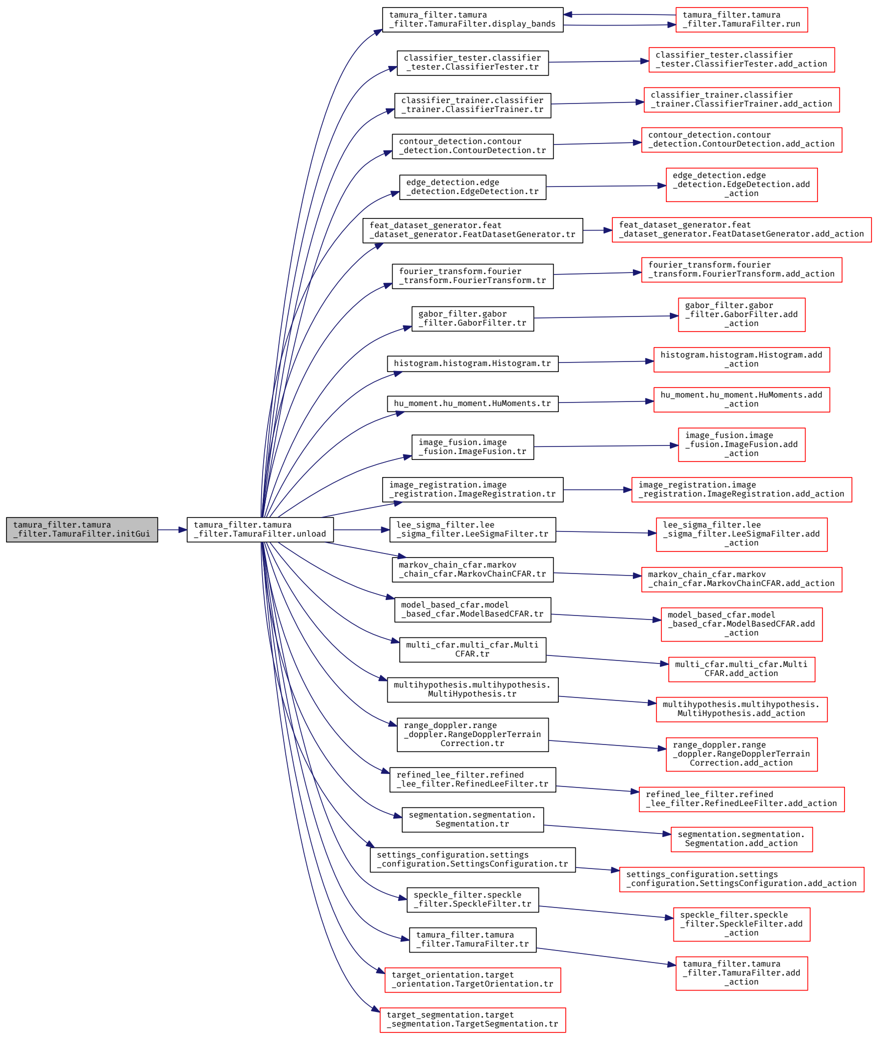


6.22.3.4 initGui()

```
def tamura_filter.tamura_filter.TamuraFilter.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:

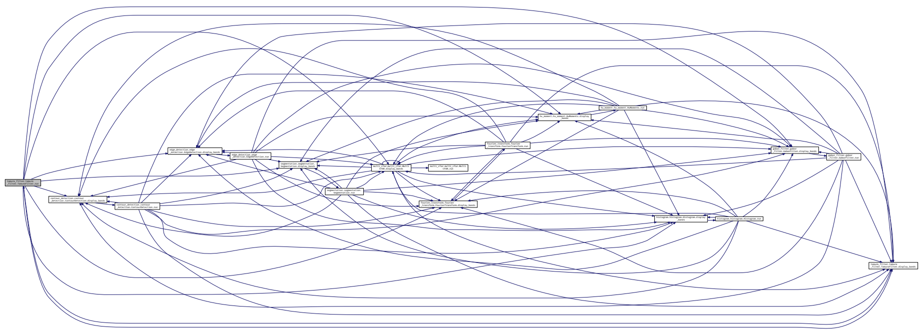

tamura_filter.tamura_filter.TamuraFilter.initGui
tamura_filter.tamura_filter.TamuraFilter.unload
tamura_filter.tamura_filter.TamuraFilter.display_bands
tamura_filter.tamura_filter.TamuraFilter.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.tr
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.tr
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.tr
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.tr
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.tr
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.tr
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.tr
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.tr
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.tr
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.tr
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.tr
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr

6.22.3.5 run()

```
def tamura_filter.tamura_filter.TamuraFilter.run (
                self )
```

Run method that performs all the real work.

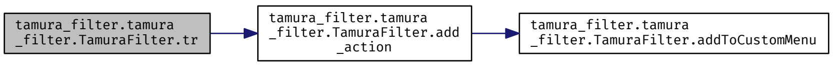
Here is the call graph for this function:



6.22.3.6 tr()

```
def tamura_filter.tamura_filter.TamuraFilter.tr (
              self,
              message )
```

Here is the call graph for this function:

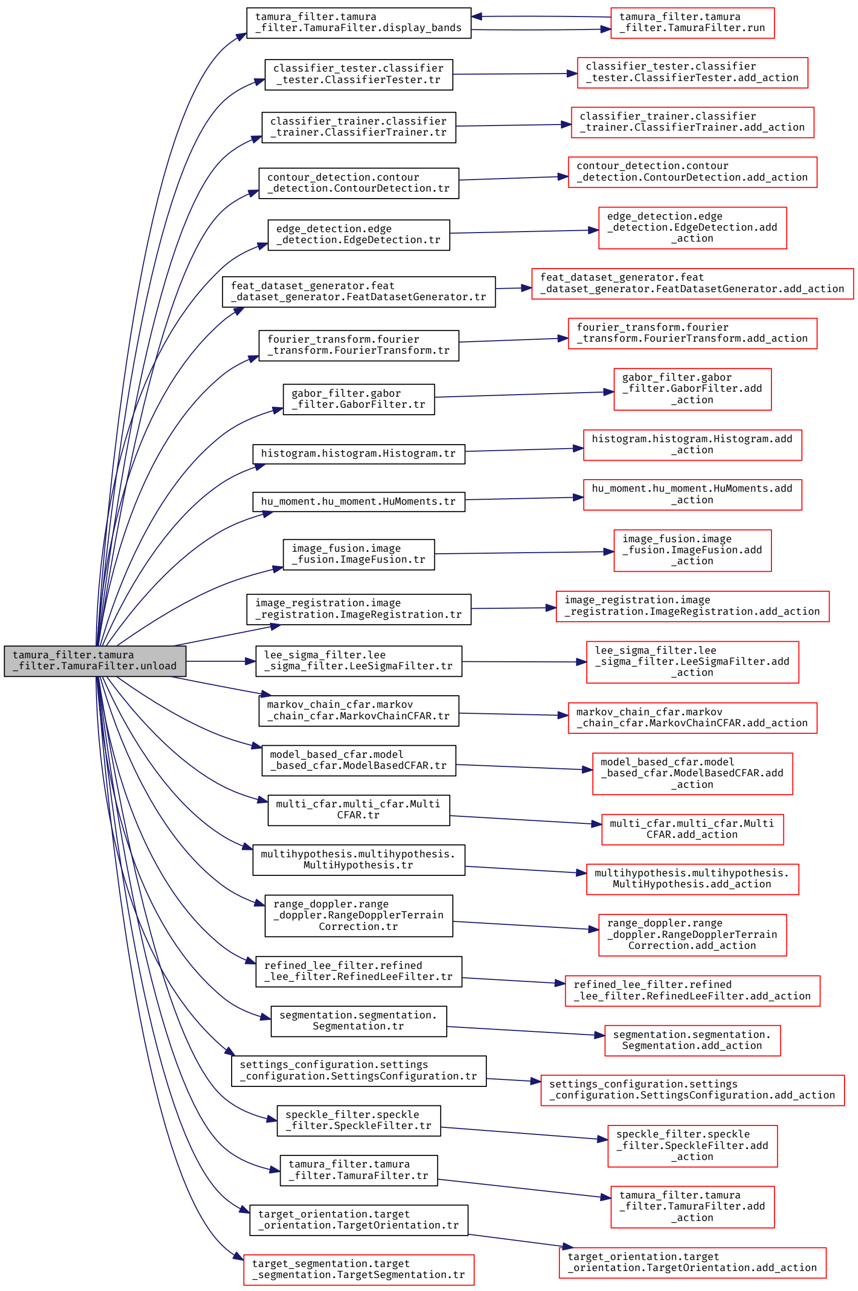

tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.addToCustomMenu

6.22.3.7 unload()

```
def tamura_filter.tamura_filter.TamuraFilter.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


tamura_filter.tamura _filter.TamuraFilter.unload
tamura_filter.tamura _filter.TamuraFilter.display_bands
tamura_filter.tamura _filter.TamuraFilter.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.tr
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.tr
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.tr
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.tr
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.tr
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.tr
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.tr
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.tr
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.tr
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.tr
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.tr
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.tr
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.tr
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.tr
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.tr
target_orientation.target _orientation.TargetOrientation.add_action
target_segmentation.target _segmentation.TargetSegmentation.tr

6.22.4 Member Data Documentation

6.22.4.1 action

`tamura_filter.tamura_filter.TamuraFilter.action`

6.22.4.2 actions

`tamura_filter.tamura_filter.TamuraFilter.actions`

6.22.4.3 arguments

`tamura_filter.tamura_filter.TamuraFilter.arguments`

6.22.4.4 dlg

`tamura_filter.tamura_filter.TamuraFilter.dlg`

6.22.4.5 first_start

`tamura_filter.tamura_filter.TamuraFilter.first_start`

6.22.4.6 iface

`tamura_filter.tamura_filter.TamuraFilter.iface`

6.22.4.7 menu

`tamura_filter.tamura_filter.TamuraFilter.menu`

6.22.4.8 output_dialog

`tamura_filter.tamura_filter.TamuraFilter.output_dialog`

6.22.4.9 plugin_dir

`tamura_filter.tamura_filter.TamuraFilter.plugin_dir`

6.22.4.10 subMenu

`tamura_filter.tamura_filter.TamuraFilter.subMenu`

6.22.4.11 translator

`tamura_filter.tamura_filter.TamuraFilter.translator`

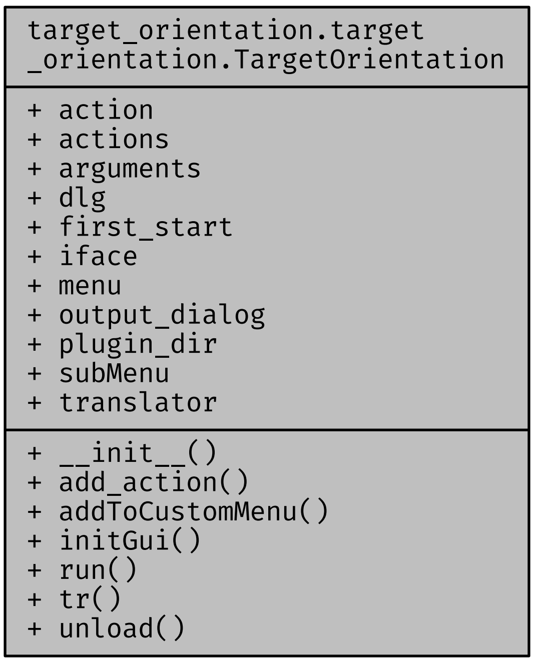
The documentation for this class was generated from the following file:

- tamura_filter.py

6.23 target_orientation.target_orientation.TargetOrientation Class Reference

QGIS Plugin Implementation.

Collaboration diagram for target_orientation.target_orientation.TargetOrientation:



Public Member Functions

- def __init__ (self, iface)
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.23.1 Detailed Description

QGIS Plugin Implementation.

6.23.2 Constructor & Destructor Documentation

6.23.2.1 __init__()

```
def target_orientation.target_orientation.TargetOrientation.__init__ (
              self,
              iface )
```

6.23.3 Member Function Documentation

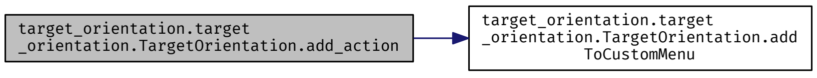
6.23.3.1 add_action()

```
def target_orientation.target_orientation.TargetOrientation.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
   :param icon_path: Path to the icon for this action. Can be a resource
       path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
   :type icon_path: str

   :param text: Text that should be shown in menu items for this action.
   :type text: str

   :param callback: Function to be called when the action is triggered.
   :type callback: function

   :param enabled_flag: A flag indicating if the action should be enabled
       by default. Defaults to True.
   :type enabled_flag: bool

   :param add_to_menu: Flag indicating whether the action should also
       be added to the menu. Defaults to True.
   :type add_to_menu: bool

   :param add_to_toolbar: Flag indicating whether the action should also
       be added to the toolbar. Defaults to True.
   :type add_to_toolbar: bool

   :param status_tip: Optional text to show in a popup when mouse pointer
       hovers over the action.
   :type status_tip: str

   :param parent: Parent widget for the new action. Defaults None.
   :type parent: QWidget

   :param whats_this: Optional text to show in the status bar when the
       mouse pointer hovers over the action.

   :returns: The action that was created. Note that the action is also
       added to self.actions list.
   :rtype: QAction
```

Here is the call graph for this function:


target_orientation.target
_orientation.TargetOrientation.add_action
target_orientation.target
_orientation.TargetOrientation.add
ToCustomMenu

6.23.3.2 addToCustomMenu()

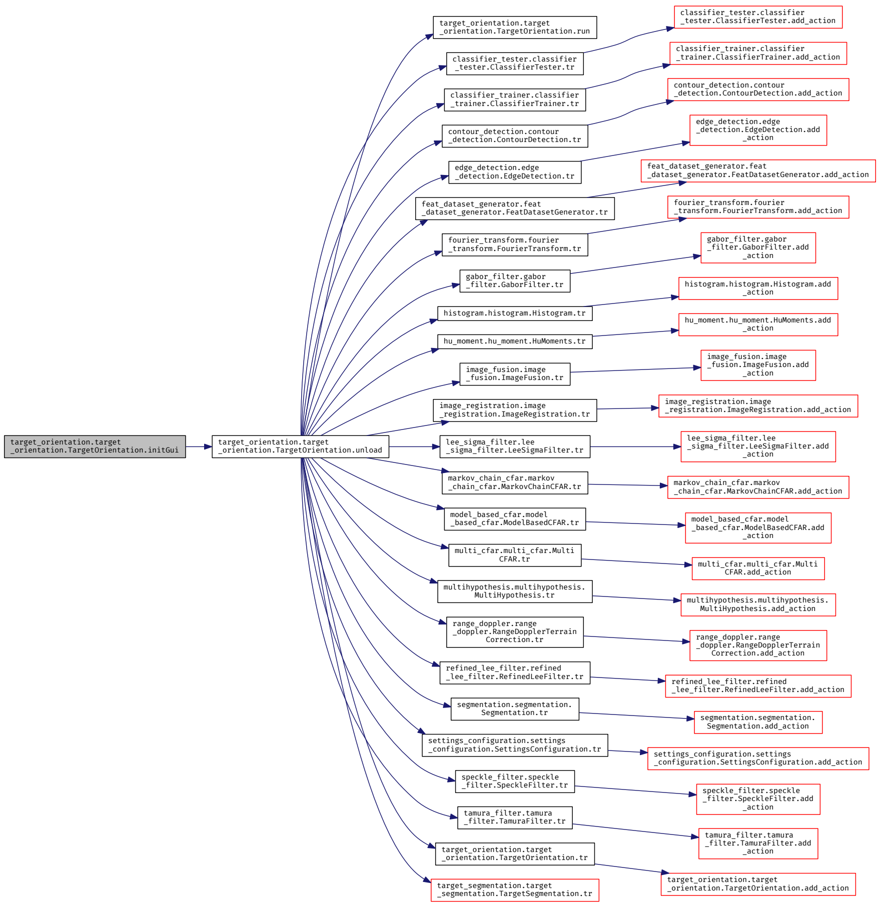
```
def target_orientation.target_orientation.TargetOrientation.addToCustomMenu (
              self )
```

6.23.3.3 initGui()

```
def target_orientation.target_orientation.TargetOrientation.initGui (
              self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


target_orientation.target _orientation.TargetOrientation.initGui
target_orientation.target _orientation.TargetOrientation.unload
target_orientation.target _orientation.TargetOrientation.run
classifier_tester.classifier _tester.ClassifierTester.tr
classifier_trainer.classifier _trainer.ClassifierTrainer.tr
contour_detection.contour _detection.ContourDetection.tr
edge_detection.edge _detection.EdgeDetection.tr
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier _transform.FourierTransform.tr
gabor_filter.gabor _filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image _fusion.ImageFusion.tr
image_registration.image _registration.ImageRegistration.tr
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model _based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.Multi CFAR.tr
multihypothesis.multihypothesis. MultiHypothesis.tr
range_doppler.range _doppler.RangeDopplerTerrain Correction.tr
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.tr
segmentation.segmentation. Segmentation.tr
settings_configuration.settings _configuration.SettingsConfiguration.tr
speckle_filter.speckle _filter.SpeckleFilter.tr
tamura_filter.tamura _filter.TamuraFilter.tr
target_orientation.target _orientation.TargetOrientation.tr
target_segmentation.target _segmentation.TargetSegmentation.tr
classifier_tester.classifier _tester.ClassifierTester.add_action
classifier_trainer.classifier _trainer.ClassifierTrainer.add_action
contour_detection.contour _detection.ContourDetection.add_action
edge_detection.edge _detection.EdgeDetection.add _action
feat_dataset_generator.feat _dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier _transform.FourierTransform.add_action
gabor_filter.gabor _filter.GaborFilter.add _action
histogram.histogram.Histogram.add _action
hu_moment.hu_moment.HuMoments.add _action
image_fusion.image _fusion.ImageFusion.add _action
image_registration.image _registration.ImageRegistration.add_action
lee_sigma_filter.lee _sigma_filter.LeeSigmaFilter.add _action
markov_chain_cfar.markov _chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model _based_cfar.ModelBasedCFAR.add _action
multi_cfar.multi_cfar.Multi CFAR.add_action
multihypothesis.multihypothesis. MultiHypothesis.add_action
range_doppler.range _doppler.RangeDopplerTerrain Correction.add_action
refined_lee_filter.refined _lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation. Segmentation.add_action
settings_configuration.settings _configuration.SettingsConfiguration.add_action
speckle_filter.speckle _filter.SpeckleFilter.add _action
tamura_filter.tamura _filter.TamuraFilter.add _action
target_orientation.target _orientation.TargetOrientation.add_action

6.23.3.4 run()

```
def target_orientation.target_orientation.TargetOrientation.run (
              self )
```

Run method that performs all the real work.

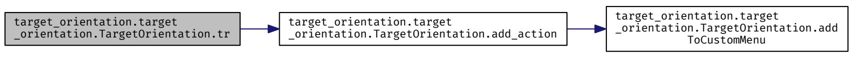
6.23.3.5 tr()

```
def target_orientation.target_orientation.TargetOrientation.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

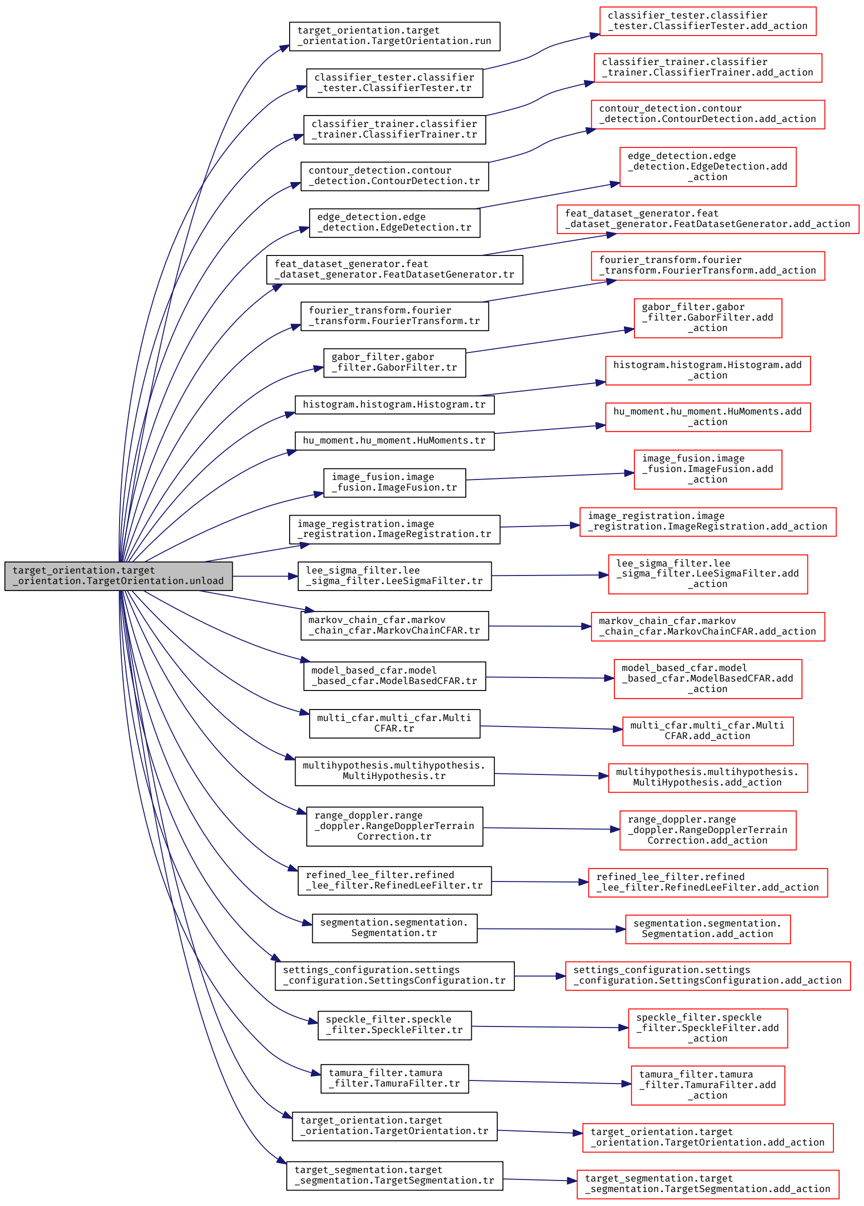

target_orientation.target _orientation.TargetOrientation.tr
target_orientation.target _orientation.TargetOrientation.add_action
target_orientation.target _orientation.TargetOrientation.add ToCustomMenu

6.23.3.6 unload()

```
def target_orientation.target_orientation.TargetOrientation.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


target_orientation.target_orientation.TargetOrientation.unload
target_orientation.target_orientation.TargetOrientation.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.add_action

6.23.4 Member Data Documentation

6.23.4.1 action

```
target_orientation.target_orientation.TargetOrientation.action
```

6.23.4.2 actions

```
target_orientation.target_orientation.TargetOrientation.actions
```

6.23.4.3 arguments

```
target_orientation.target_orientation.TargetOrientation.arguments
```

6.23.4.4 dlg

```
target_orientation.target_orientation.TargetOrientation.dlg
```

6.23.4.5 first_start

```
target_orientation.target_orientation.TargetOrientation.first_start
```

6.23.4.6 iface

```
target_orientation.target_orientation.TargetOrientation.iface
```

6.23.4.7 menu

```
target_orientation.target_orientation.TargetOrientation.menu
```

6.23.4.8 output_dialog

```
target_orientation.target_orientation.TargetOrientation.output_dialog
```

6.23.4.9 plugin_dir

```
target_orientation.target_orientation.TargetOrientation.plugin_dir
```

6.23.4.10 subMenu

```
target_orientation.target_orientation.TargetOrientation.subMenu
```

6.23.4.11 translator

```
target_orientation.target_orientation.TargetOrientation.translator
```

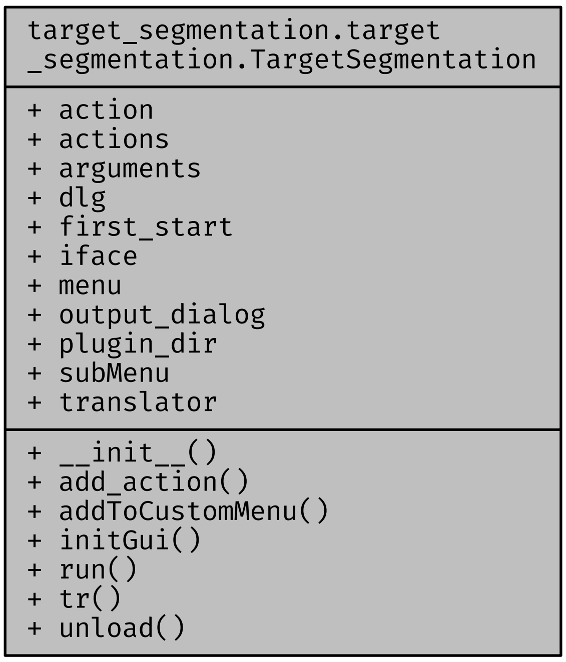
The documentation for this class was generated from the following file:

- target_orientation.py

6.24 target_segmentation.target_segmentation.TargetSegmentation Class Reference

QGIS Plugin Implementation.

Collaboration diagram for target_segmentation.target_segmentation.TargetSegmentation:



Public Member Functions

- def __init__ (self, iface)
- def add_action (self, icon_path, text, callback, enabled_flag=True, add_to_menu=True, add_to_toolbar=True, status_tip=None, whats_this=None, parent=None)

  Add a toolbar icon to the toolbar.
- def addToCustomMenu (self)
- def initGui (self)

  Create the menu entries and toolbar icons inside the QGIS GUI.
- def run (self)

  Run method that performs all the real work.
- def tr (self, message)

  Get the translation for a string using Qt translation API.
- def unload (self)

  Removes the plugin menu item and icon from QGIS GUI.

Public Attributes

- action
- actions
- arguments
- dlg
- first_start
- iface
- menu
- output_dialog
- plugin_dir
- subMenu
- translator

6.24.1 Detailed Description

QGIS Plugin Implementation.

6.24.2 Constructor & Destructor Documentation

6.24.2.1 __init__()

```
def target_segmentation.target_segmentation.TargetSegmentation.__init__ (
              self,
              iface )
```

6.24.3 Member Function Documentation

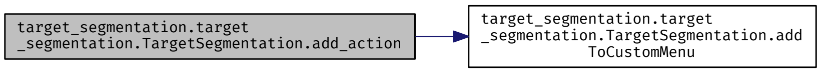
6.24.3.1 add_action()

```
def target_segmentation.target_segmentation.TargetSegmentation.add_action (
              self,
              icon_path,
              text,
              callback,
              enabled_flag = True,
              add_to_menu = True,
              add_to_toolbar = True,
              status_tip = None,
              whats_this = None,
              parent = None )
```

Add a toolbar icon to the toolbar.

```
    :param icon_path: Path to the icon for this action. Can be a resource
        path (e.g. ':/plugins/foo/bar.png') or a normal file system path.
    :type icon_path: str

    :param text: Text that should be shown in menu items for this action.
    :type text: str

    :param callback: Function to be called when the action is triggered.
    :type callback: function

    :param enabled_flag: A flag indicating if the action should be enabled
        by default. Defaults to True.
    :type enabled_flag: bool

    :param add_to_menu: Flag indicating whether the action should also
        be added to the menu. Defaults to True.
    :type add_to_menu: bool

    :param add_to_toolbar: Flag indicating whether the action should also
        be added to the toolbar. Defaults to True.
    :type add_to_toolbar: bool

    :param status_tip: Optional text to show in a popup when mouse pointer
        hovers over the action.
    :type status_tip: str

    :param parent: Parent widget for the new action. Defaults None.
    :type parent: QWidget

    :param whats_this: Optional text to show in the status bar when the
        mouse pointer hovers over the action.

    :returns: The action that was created. Note that the action is also
        added to self.actions list.
    :rtype: QAction
```

Here is the call graph for this function:


target_segmentation.target
_segmentation.TargetSegmentation.add_action
target_segmentation.target
_segmentation.TargetSegmentation.add
ToCustomMenu

6.24.3.2 addToCustomMenu()

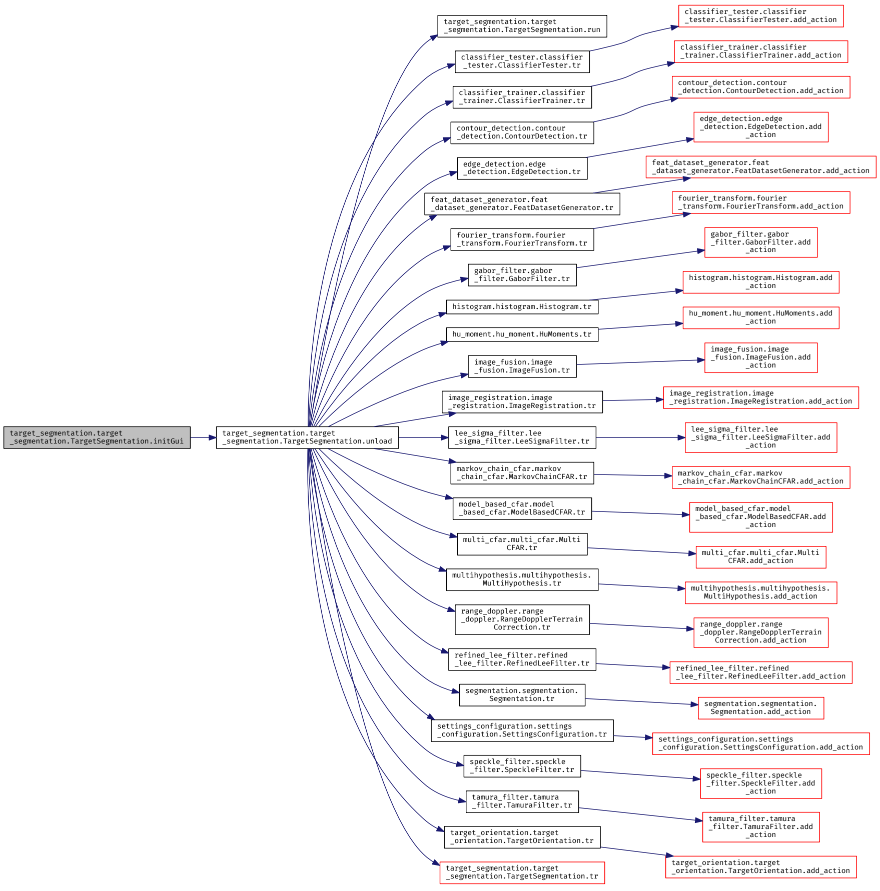
```
def target_segmentation.target_segmentation.TargetSegmentation.addToCustomMenu (
            self )
```

6.24.3.3 initGui()

```
def target_segmentation.target_segmentation.TargetSegmentation.initGui (
            self )
```

Create the menu entries and toolbar icons inside the QGIS GUI.

Here is the call graph for this function:


target_segmentation.target_segmentation.TargetSegmentation.initGui
target_segmentation.target_segmentation.TargetSegmentation.unload
target_segmentation.target_segmentation.TargetSegmentation.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action

6.24.3.4 run()

```
def target_segmentation.target_segmentation.TargetSegmentation.run (
            self )
```

Run method that performs all the real work.

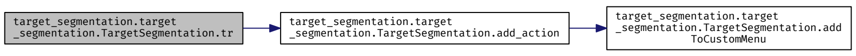
6.24.3.5 tr()

```
def target_segmentation.target_segmentation.TargetSegmentation.tr (
              self,
              message )
```

Get the translation for a string using Qt translation API.

```
   We implement this ourselves since we do not inherit QObject.

   :param message: String for translation.
   :type message: str, QString

   :returns: Translated version of message.
   :rtype: QString
```

Here is the call graph for this function:

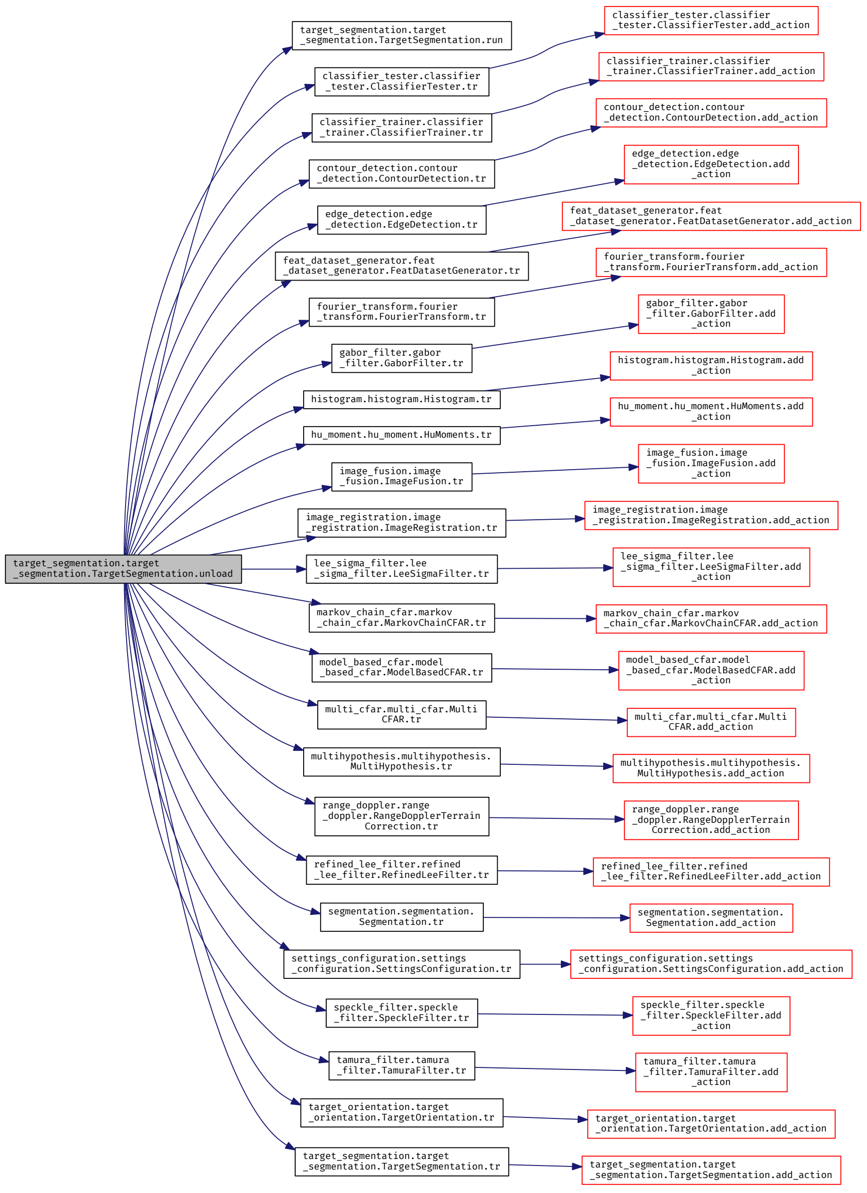

target_segmentation.target _segmentation.TargetSegmentation.tr
target_segmentation.target _segmentation.TargetSegmentation.add_action
target_segmentation.target _segmentation.TargetSegmentation.add ToCustomMenu

6.24.3.6 unload()

```
def target_segmentation.target_segmentation.TargetSegmentation.unload (
              self )
```

Removes the plugin menu item and icon from QGIS GUI.

Here is the call graph for this function:


target_segmentation.target_segmentation.TargetSegmentation.unload
target_segmentation.target_segmentation.TargetSegmentation.run
classifier_tester.classifier_tester.ClassifierTester.tr
classifier_trainer.classifier_trainer.ClassifierTrainer.tr
contour_detection.contour_detection.ContourDetection.tr
edge_detection.edge_detection.EdgeDetection.tr
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.tr
fourier_transform.fourier_transform.FourierTransform.tr
gabor_filter.gabor_filter.GaborFilter.tr
histogram.histogram.Histogram.tr
hu_moment.hu_moment.HuMoments.tr
image_fusion.image_fusion.ImageFusion.tr
image_registration.image_registration.ImageRegistration.tr
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.tr
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.tr
model_based_cfar.model_based_cfar.ModelBasedCFAR.tr
multi_cfar.multi_cfar.MultiCFAR.tr
multihypothesis.multihypothesis.MultiHypothesis.tr
range_doppler.range_doppler.RangeDopplerTerrainCorrection.tr
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.tr
segmentation.segmentation.Segmentation.tr
settings_configuration.settings_configuration.SettingsConfiguration.tr
speckle_filter.speckle_filter.SpeckleFilter.tr
tamura_filter.tamura_filter.TamuraFilter.tr
target_orientation.target_orientation.TargetOrientation.tr
target_segmentation.target_segmentation.TargetSegmentation.tr
classifier_tester.classifier_tester.ClassifierTester.add_action
classifier_trainer.classifier_trainer.ClassifierTrainer.add_action
contour_detection.contour_detection.ContourDetection.add_action
edge_detection.edge_detection.EdgeDetection.add_action
feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator.add_action
fourier_transform.fourier_transform.FourierTransform.add_action
gabor_filter.gabor_filter.GaborFilter.add_action
histogram.histogram.Histogram.add_action
hu_moment.hu_moment.HuMoments.add_action
image_fusion.image_fusion.ImageFusion.add_action
image_registration.image_registration.ImageRegistration.add_action
lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter.add_action
markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR.add_action
model_based_cfar.model_based_cfar.ModelBasedCFAR.add_action
multi_cfar.multi_cfar.MultiCFAR.add_action
multihypothesis.multihypothesis.MultiHypothesis.add_action
range_doppler.range_doppler.RangeDopplerTerrainCorrection.add_action
refined_lee_filter.refined_lee_filter.RefinedLeeFilter.add_action
segmentation.segmentation.Segmentation.add_action
settings_configuration.settings_configuration.SettingsConfiguration.add_action
speckle_filter.speckle_filter.SpeckleFilter.add_action
tamura_filter.tamura_filter.TamuraFilter.add_action
target_orientation.target_orientation.TargetOrientation.add_action
target_segmentation.target_segmentation.TargetSegmentation.add_action

6.24.4 Member Data Documentation

6.24.4.1 action

`target_segmentation.target_segmentation.TargetSegmentation.action`

6.24.4.2 actions

```
target_segmentation.target_segmentation.TargetSegmentation.actions
```

6.24.4.3 arguments

```
target_segmentation.target_segmentation.TargetSegmentation.arguments
```

6.24.4.4 dlg

```
target_segmentation.target_segmentation.TargetSegmentation.dlg
```

6.24.4.5 first_start

```
target_segmentation.target_segmentation.TargetSegmentation.first_start
```

6.24.4.6 iface

```
target_segmentation.target_segmentation.TargetSegmentation.iface
```

6.24.4.7 menu

```
target_segmentation.target_segmentation.TargetSegmentation.menu
```

6.24.4.8 output_dialog

```
target_segmentation.target_segmentation.TargetSegmentation.output_dialog
```

6.24.4.9 plugin_dir

```
target_segmentation.target_segmentation.TargetSegmentation.plugin_dir
```

6.24.4.10 subMenu

```
target_segmentation.target_segmentation.TargetSegmentation.subMenu
```

6.24.4.11 translator

```
target_segmentation.target_segmentation.TargetSegmentation.translator
```

The documentation for this class was generated from the following file:

- target_segmentation.py

Chapter 7

File Documentation

7.1 classifier_tester.py File Reference

Classes

- class classifier_tester.classifier_tester.ClassifierTester

  QGIS Plugin Implementation.

Namespaces

- classifier_tester.classifier_tester

7.2 classifier_trainer.py File Reference

Classes

- class classifier_trainer.classifier_trainer.ClassifierTrainer

  QGIS Plugin Implementation.

Namespaces

- classifier_trainer.classifier_trainer

7.3 contour_detection.py File Reference

Classes

- class contour_detection.contour_detection.ContourDetection

  QGIS Plugin Implementation.

Namespaces

- contour_detection.contour_detection

7.4 edge_detection.py File Reference

Classes

- class edge_detection.edge_detection.EdgeDetection

    QGIS Plugin Implementation.

Namespaces

- edge_detection.edge_detection

7.5 feat_dataset_generator.py File Reference

Classes

- class feat_dataset_generator.feat_dataset_generator.FeatDatasetGenerator

    QGIS Plugin Implementation.

Namespaces

- feat_dataset_generator.feat_dataset_generator

7.6 fourier_transform.py File Reference

Classes

- class fourier_transform.fourier_transform.FourierTransform

    QGIS Plugin Implementation.

Namespaces

- fourier_transform.fourier_transform

7.7 gabor_filter.py File Reference

Classes

- class gabor_filter.gabor_filter.GaborFilter

    QGIS Plugin Implementation.

Namespaces

- gabor_filter.gabor_filter

7.8 histogram.py File Reference

Classes

- class histogram.histogram.Histogram

    QGIS Plugin Implementation.

Namespaces

- histogram.histogram

7.9 hu_moment.py File Reference

Classes

- class hu_moment.hu_moment.HuMoments

    QGIS Plugin Implementation.

Namespaces

- hu_moment.hu_moment

7.10 image_fusion.py File Reference

Classes

- class image_fusion.image_fusion.ImageFusion

    QGIS Plugin Implementation.

Namespaces

- image_fusion.image_fusion

7.11 image_registration.py File Reference

Classes

- class image_registration.image_registration.ImageRegistration

    QGIS Plugin Implementation.

Namespaces

- image_registration.image_registration

7.12 lee_sigma_filter.py File Reference

Classes

- class lee_sigma_filter.lee_sigma_filter.LeeSigmaFilter

  QGIS Plugin Implementation.

Namespaces

- lee_sigma_filter.lee_sigma_filter

7.13 markov_chain_cfar.py File Reference

Classes

- class markov_chain_cfar.markov_chain_cfar.MarkovChainCFAR

  QGIS Plugin Implementation.

Namespaces

- markov_chain_cfar.markov_chain_cfar

7.14 model_based_cfar.py File Reference

Classes

- class model_based_cfar.model_based_cfar.ModelBasedCFAR

  QGIS Plugin Implementation.

Namespaces

- model_based_cfar.model_based_cfar

7.15 multi_cfar.py File Reference

Classes

- class multi_cfar.multi_cfar.MultiCFAR

  QGIS Plugin Implementation.

Namespaces

- multi_cfar.multi_cfar

7.16 multihypothesis.py File Reference

Classes

- class multihypothesis.multihypothesis.MultiHypothesis

    QGIS Plugin Implementation.

Namespaces

- multihypothesis.multihypothesis

7.17 range_doppler.py File Reference

Classes

- class range_doppler.range_doppler.RangeDopplerTerrainCorrection

    QGIS Plugin Implementation.

Namespaces

- range_doppler.range_doppler

7.18 README.md File Reference

7.19 refined_lee_filter.py File Reference

Classes

- class refined_lee_filter.refined_lee_filter.RefinedLeeFilter

    QGIS Plugin Implementation.

Namespaces

- refined_lee_filter.refined_lee_filter

7.20 segmentation.py File Reference

Classes

- class segmentation.segmentation.Segmentation

    QGIS Plugin Implementation.

Namespaces

- segmentation.segmentation

7.21 settings_configuration.py File Reference

Classes

- class settings_configuration.settings_configuration.SettingsConfiguration

    QGIS Plugin Implementation.

Namespaces

- settings_configuration.settings_configuration

7.22 speckle_filter.py File Reference

Classes

- class speckle_filter.speckle_filter.SpeckleFilter

    QGIS Plugin Implementation.

Namespaces

- speckle_filter.speckle_filter

7.23 tamura_filter.py File Reference

Classes

- class tamura_filter.tamura_filter.TamuraFilter

    QGIS Plugin Implementation.

Namespaces

- tamura_filter.tamura_filter

7.24 target_orientation.py File Reference

Classes

- class target_orientation.target_orientation.TargetOrientation
  QGIS Plugin Implementation.

Namespaces

- target_orientation.target_orientation

7.25 target_segmentation.py File Reference

Classes

- class target_segmentation.target_segmentation.TargetSegmentation
  QGIS Plugin Implementation.

Namespaces

- target_segmentation.target_segmentation