13. Face detection algorithm

13.1.1. Use

Source code launch file path: /opt/ros/noetic/share/opencv_apps/launch

Step 1: Start the camera

roslaunch astra_visual opencv_apps.launch img_flip:=false

• img_flip parameter: whether the image needs to be flipped horizontally, the default is false.

The [usb_cam-test.launch] file opens the [web_video_server] node by default, and you can directly use the [IP:8080] web page to view the image in real time.

Step 2: Start the corner detection function of Opencv_apps

roslaunch opencv_apps face_detection.launch # Face detection algorithm

Each function case will have a parameter [debug_view], Boolean type, whether to use Opencv to display the image, the default is displayed.

If you don't need to display, set it to [False], for example

roslaunch opencv_apps face_detection.launch debug_view:=False

However, after starting in this way, some cases may not be displayed in other ways, because in the source code, some [debug_view] is set to [False], which will turn off image processing.

13.1.2, Display method

rqt_image_view

Enter the following command and select the corresponding topic

rqt_image_view

opencv

The system displays by default, and no processing is required.

Web viewing

(Under the same LAN) Enter IP+port in the browser, for example:

192.168.2.116:8080

For specific IP, use your current virtual machine IP.

13.1.3, Effect display

If the code is successfully run, you can see the following effect picture.

