18. Feature point tracking

18.1 Use

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

Step 1: Start the camera

roslaunch dofbot_visual opencv_apps.launch img_flip:=false

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

[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 images in real time.

Step 2: Start the corner detection function of Opencv_apps

roslaunch opencv_apps goodfeature_track.launch
tracking

Feature point

Each functional case will have a parameter [debug_view], Boolean type, whether to use Opencv to display images, which is displayed by default.

If no display is required, set it to [False], for example

roslaunch opencv_apps contour_moments.launch debug_view:=False

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

18.2 Display method

rqt_image_view

Enter the following command and select the corresponding topic

rqt_image_view

opencv

The system displays it by default, no need to do anything.

Web viewing

(Same as under LAN) Enter IP+port in the browser, for example:

192.168.2.116:8080

For specific IP, use your current virtual machine IP.

18.3 Effect display

You can see an adjustable window appearing on the screen, and object feature points appearing at the same time.

