

RecvConf.xml Configuration file description

Confirm the configuration file before running the registration procedure

Parameter description

1、 Buffer settings

```
<nFramePerRcvBuf>1</nFramePerRcvBuf>  
...  
<nRcvBufPerPool>400</nRcvBufPerPool>
```

2、 NIC address

```
<deviceName1>0000:85:00.0</deviceName1>  
<deviceName2>0000:85:00.1</deviceName2>
```

3、 Storage path

```
<filePath>/mnt/DATA-STORE/</filePath>
```

4、 Whether to store the reference image and the file prefix name

```
<!-- filename for storing Model data -->  
<ifStoreReferenceImage>true</ifStoreReferenceImage>  
<referencePreName>refer</referencePreName>
```

ifStoreReferenceImage: true for storage, false for no storage

referencePreName is the reference image prefix name

5、 Whether to store the resulting image after registration and the prefix name

```
<!-- filename for storing received data -->  
<ifStoreResultImage>true</ifStoreResultImage>  
<imagePreName>res</imagePreName>
```

ifStoreResultImage: true for storage, false for no storage

imagePreName is the image prefix name

6、 Whether to store ROI results and prefix names

```
<ifStoreROI>true</ifStoreROI>  
<roiPreName>roi</roiPreName>
```

ifStoreROI: true for storage, false for no storage

roiPreName is the roi files prefix name

7、 Serial port path and name

```
<serialPort>/dev/ttyS1</serialPort>
```

8、 Stop duration, in seconds

```
<pauseTime>40</pauseTime>
```

The program will determine whether to end the run based on the pauseTime time. Built-in is twice the pauseTime value.

For example, if pauseTime is set to 40, when no data enters the NIC after $40 \times 2 = 80$ seconds, the system considers the registration to end and automatically ends the program.

9、 The display length of the abscissa of the ROI line chart

```
<roilength>500</roilength>
```

10、 Image size settings

```
<indexStartX>0</indexStartX>  
<indexEndX>2047</indexEndX>  
<indexStartY>0</indexStartY>  
<indexEndY>2047</indexEndY>
```

X-axis direction start and end points, Y-axis direction start point and end point.

11、 The sliding step during registration

```
<pointDensity>80</pointDensity>
```

12、 The number of registration image layers

```
<regNumber>24</regNumber>
```

The number of valid data layers, minus the exposure layer.

13、 The number of reference images

```
<referenceNumber>240</referenceNumber>
```

There is no exposure layer

14、 The number of groups of ROIs, i.e. the number of brain regions

```
<roiGroupNumber>4</roiGroupNumber>
```

15、 Normalize the benchmark window size and percentile points

```
<normalNumber>30</normalNumber>  
<normalPercent>0.2</normalPercent>
```

16、 Experiment type

```
<ifFeedback>true</ifFeedback>
```

true for feedback experiment;

false for controlled experiment;

17、 The length of the filtered feedback signal

```
<filterNumber>200</filterNumber>
```

Indicates that the feedback signal is sent from group 200.

18、 Feedback signal judgment threshold

```
<varianceThreshold>35</varianceThreshold>
```

```
<meanThreshold>35</meanThreshold>
```

VarianceThreshold: the variance threshold when feedback experiments;

MeanThreshold: mean threshold in controlled experiment;

19、 ROI minus the background value

```
<ROIFixed>100</ROIFixed>
```