

RSDD-SAR Dataset Instructions

Figure.1 shows the structure of RSDD-SAR dataset. This dataset contains JPEGImages, Annotations, Imagesets and JPEGValidation folders, of which the JPEGImages folder contains 7000 slices, the Annotations folder contains 7000 annotation files, the Imagesets folder contains the dataset division files, and the JPEGValidation folder contains 2 large uncropped large images and their annotation files.

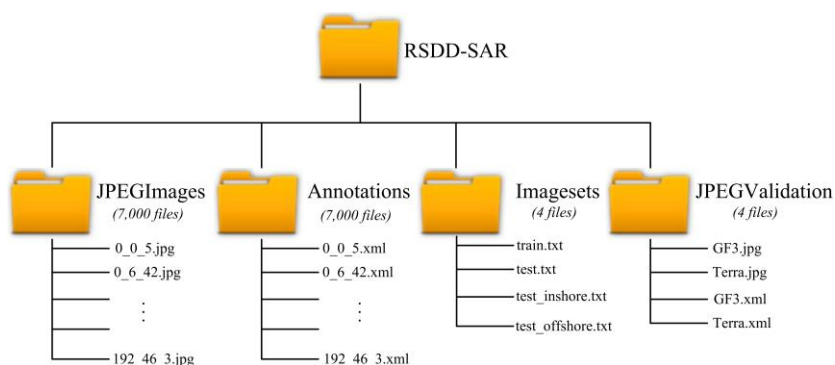
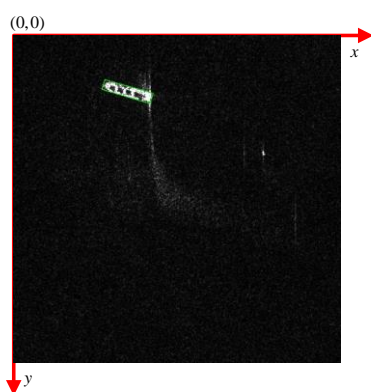


Fig.1 Structure of RSDD-SAR dataset

Figure.2 shows an annotation example of RSDD-SAR, Figure.2(a) is a slice example, and Figure.2(b) is the corresponding .XML file. The .XML file records the polarization mode, resolution, rotated bounding box annotation and other information. The rotated bounding box annotation adopts the long-edge definition method, including the center point coordinate, long edge, short edge, and angle. Taking Figure.2(b) as an example, the file name is 86_6_14.xml, the polarization method is VV, the resolution is 3 m, the slice size is (512, 512, 3), the center point coordinate of the rotated bounding box is (178.58, 87.68), the long edge is 77.73, the short edge is 16.29, and the angle is 0.27.



(a) Slice example

```

<annotation>
  <folder>RSDD-SAR</folder>
  <filename>86_6_14.xml</filename>           %文件名
  <polarization>VV</polarization>           %极化方式
  <resolution>3</resolution>               %分辨率
  <size>
    <width>512</width>                       %宽度
    <height>512</height>                     %高度
    <depth>3</depth>                         %通道数
  </size>
  <segmented>0</segmented>
  <object>                                   %第一个舰船目标
    <type>robnbbox</type>
    <name>ship</name>
    <difficult>0</difficult>
    <robnbbox>
      <cx>178.5838</cx>                       %斜框中心点x坐标
      <cy>87.6826</cy>                       %斜框中心点y坐标
      <h>77.72850799560547</h>               %斜框长边长度
      <w>16.288599014282227</w>             %斜框短边长度
      <angle>0.27497893927027445</angle>    %斜框角度
    </robnbbox>
  </object>
  ...
  <object>                                   %第n个舰船目标
    ...
  </object>
</annotation>

```

(b) .XML file example

Figure.2 Annotation example

