**Adaptive threshold.py:**

Methods to segment crack propagation and fast fracture:

1. Adaptive threshold to segment the crack propagation and fast fracture;
2. Global threshold to segment the crack propagation and fast fracture;
3. Erosion for denoise and dilation for dilate right area;

**contour\_features.py:**

1. Find the largest contours;
2. Find contour Area
3. Find contour Perimeter
4. Find contour approximation
5. Find bounding Rectangle
6. Find rotated Rectangle
7. Minimum Enclosing Circle

Find the contours of the fatigue fracture surface images;

**image statistics.py:**

1. Find the statistic result of the crack propagation and fast fracture