



Description:

This tool combines the bump find and polygon soothing tools together with an image and tool origin.

Ports:

Name	Type	Description
Input Image	Image	Image used for processing.
Tool Origin	Origin	Tool reference origin.
Soothing Level	Integer	The amount of polygon smoothing (the number of convolutions applied to the filter before it is applied to the polygon). A higher value uses a larger filter for greater smoothing.
Window Width	Real	Cumulative turn angles are accumulated over this total length of the curve. Defect points are marked at the middle vertex of the curve.
Flatness Length	Real	The minimum boundary length that declares the end of a defect. If the flatness length is exceeded between defect points, the defect is considered terminated between them.
Cumulative Turn Angle In Degrees	Real	The minimum angle turn needed to signal a defect point. This is called 'cumulative' because it is accumulated over several vertices. Defect points are reported only if there is more than one with opposite turn directions with no flatness termination between them. This criterion makes the tool able to distinguish between corners and defect bumps.
Bump Type	Integer	Find Both: The tool finds both concave and convex bumps Find Convex: The tool finds only bumps that protrude outward from the boundary. Find Concave: The tool finds only bumps that are indented into the boundary.
Defect List	Point List	The list of defect points.
Smoothed Perimeter	Shape List	The list of smoothed polygons.