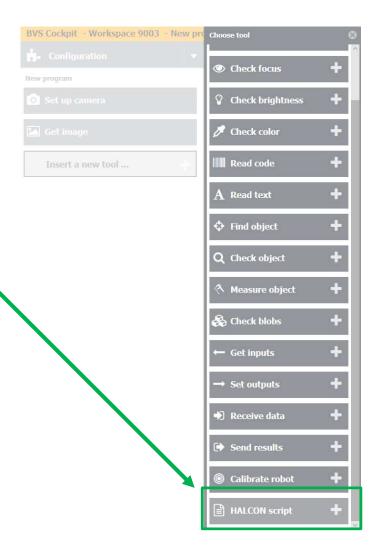
Step-by-Step Guide

Fit Line or Circle

BVLL

Step 1

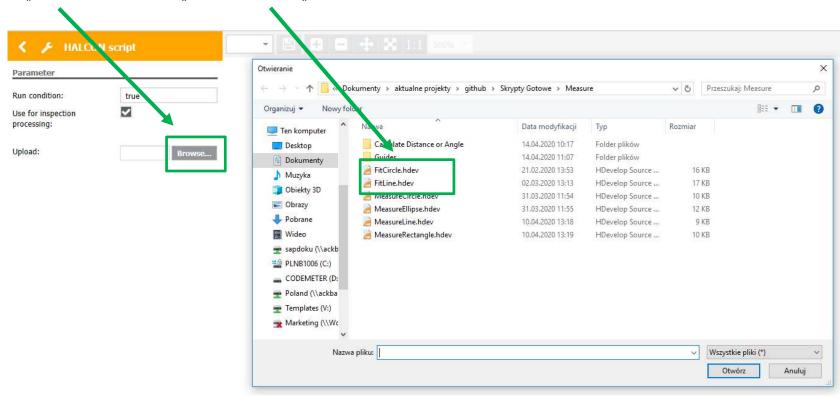
Add new tool – Halcon Script – in your inspection program.





Step 2

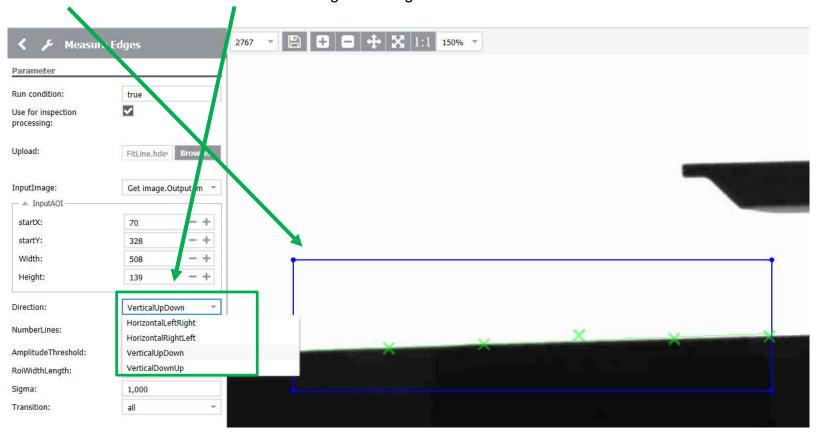
Click "Browse" and choose "FitLine.hdev" or "FitCircle.hdev" file.





Step 3

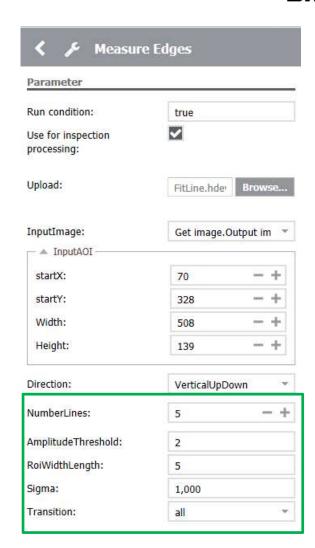
Set the AOI and choose the direction of the edge founding lines.



Step 4

Adjust edge parameters:

- a) NumberLines number of edge founding lines
- b) AmplitudeThreshold minimum edge contrast
- c) RoidWidthLength length of the line perpendicular to the generated edge founding line
- d) Sigma smoothing

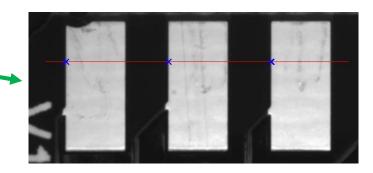


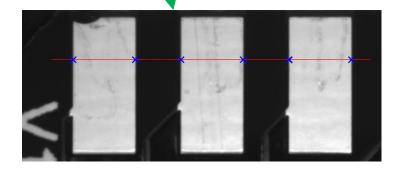
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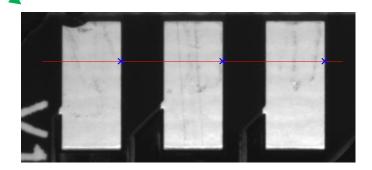
Step 5

You can also specify the edge Transition:

- a) Positive only edges with polarity from dark to light will be found
- b) Negative only edges with polarity from light to dark will be found
- c) All edges with both polarity will be found







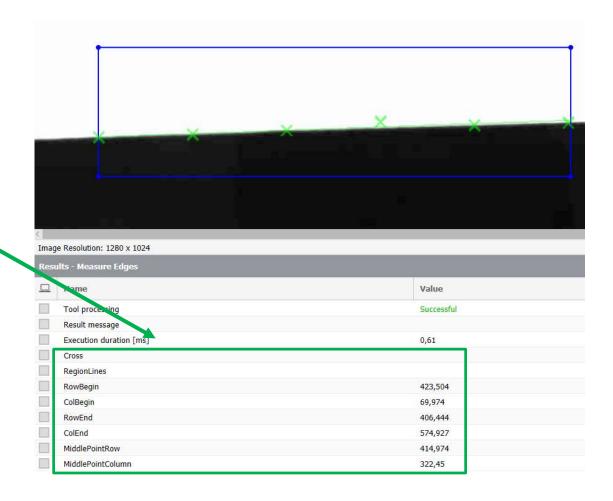
Step 6

Found edges will be displayed as Crosses on the image.

Fited Line will be displayed in RegionLines output variable (as line on the image).

Available output parameters:

- a) RowBegin row coordinate of line's start point
- b) ColBegin column coordinate of line's start point
- c) RowEnd row coordinate of line's end point
- d) ColEnd column coordinate of line's end point
- e) MiddlePointRow row coordinate of line's middle point
- f) MiddlePointColumn column coordinate of line's middle point



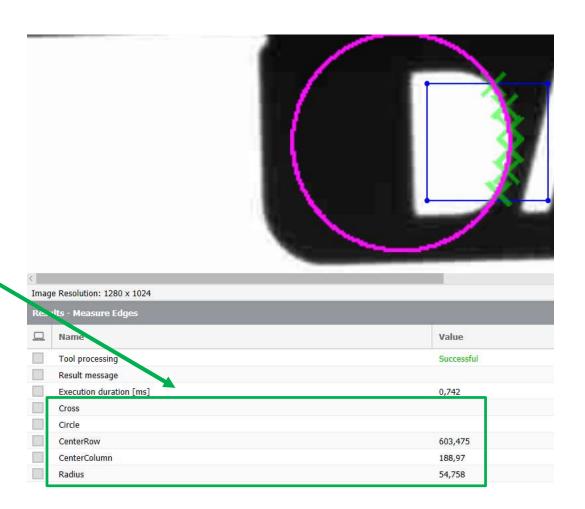
Step 7

Found edges will be displayed as Crosses on the image.

Fited Circle will displayed in Circle output variable (as circle on the image).

Available output parameters:

- a) CenterRow row coordinate of circle's center point
- b) CenterColumn column coordinate of circle's center point
- c) Radius circle radius



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