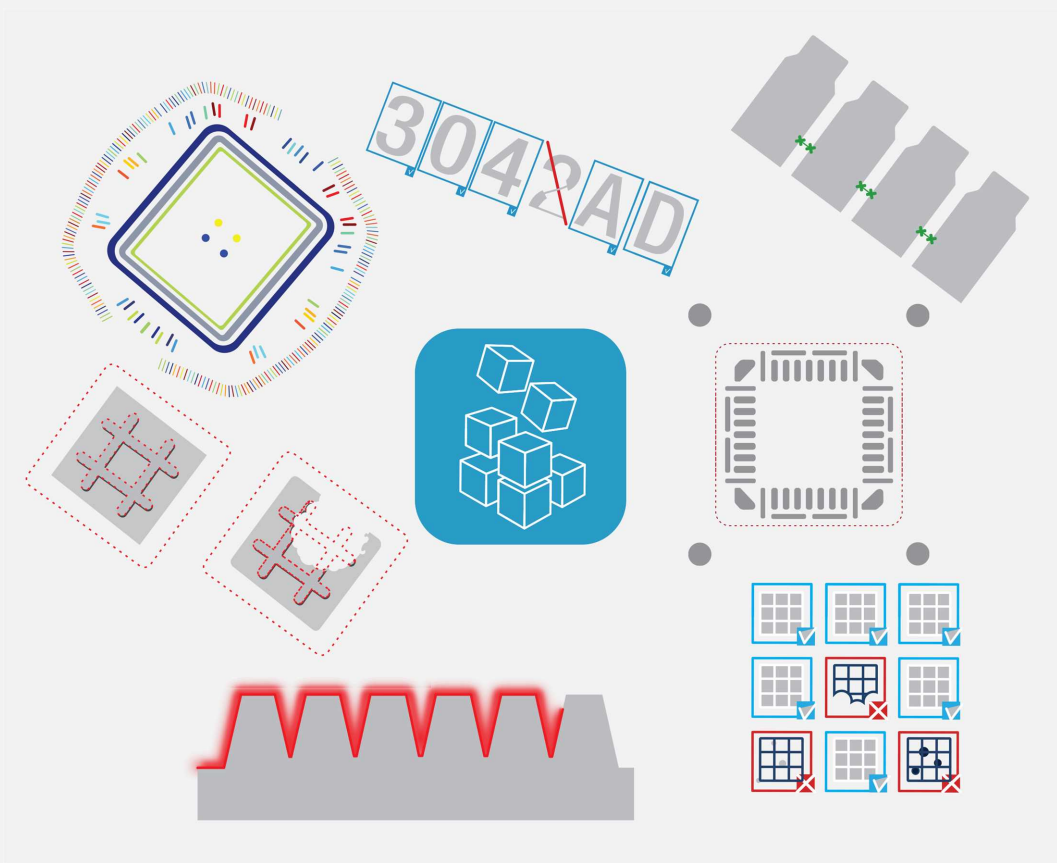


Open eVision

Inspecting Pads Using Regions



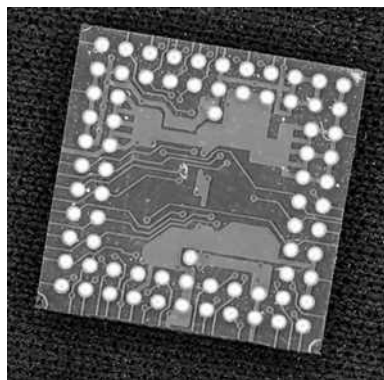
1. Inspecting Pads Using Regions

See also: [Arbitrary-Shaped ROI \(ERegion\)](#) / [code snippets: ERegion](#)

The code of this application is available in the `GGeRegion` sample installed with Open eVision.

Application objective

This application demonstrates how to use regions to inspect the pads on the underside of a non-aligned electronic chip package.



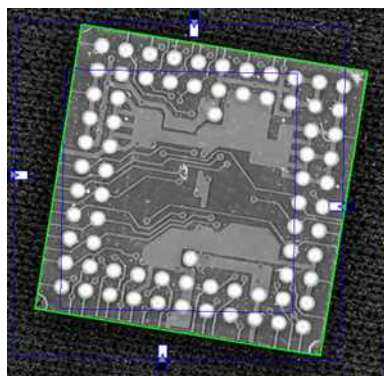
NOTE

To run this program, you need the EasyObject and EasyGauge licenses.

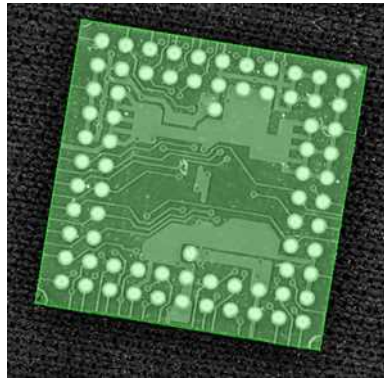
Processing

To do this, we will use EasyGauge to detect the position of the package, then perform an EasyObject segmentation on the detected position:

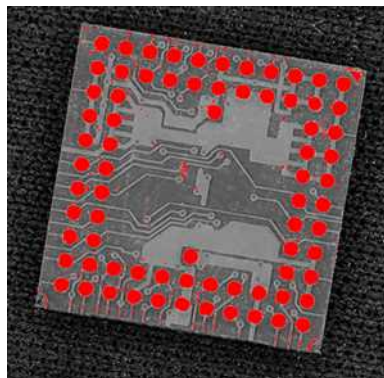
1. Use `ERectangleGauge` from the EasyGauge library to detect the package and its position.



2. Use the `ERectangleRegion::ERectangleRegion(ERectangle&)` constructor with the `ERectangle` returned by `ERectangleGauge` to create an `ERegion`.



3. Use the `EImageEncoder::Encode(EImage&, ERegion&, ECodedImage&)` method from the EasyObject2 library to perform the blob detection within the region.



4. Filter the blobs using `EObjectSelection`.
5. Perform any required measurement and check.

