

Press release

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Library extensions for VisualApplets

SILICONSOFTWARE announces the availability of two new image preprocessing libraries for VisualApplets.

The first one covers a blob analysis for area scan cameras (2D blob) and line scan cameras (1D blob). The analysis is processed on binarised images and supports with its high parallelism even a bandwidth of FULL Configuration cameras.

The objects are not limited in size, shape or overlapping position (1D). Up to 1024 objects per two lines can be detected, which corresponds to a number of 500.000 objects on a mega pixel sensor.

The 1D blob for line scan cameras operates in endless mode; even an image height is defined. Image overlapping objects are combined and uniquely defined by their properties.

The blob library features the output of number of objects, the according area, contour length and centers of gravity in x- and y-directions. A bounding box can be placed around the objects to extract the relevant ROI (regions on interest) for an adjacent image processing.

In VisualApplets environment, the blob functionality can be combined with other preprocessing operators.

The second library covers a JPEG encoder for grayscale images. It supports bandwidth of up to 166 MB/s with configurable quality settings.



VA12_comp.tif (CMYK, 300dpi)

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Silicon Software GmbH, located in Mannheim/Germany, is a manufacturer of intelligent preprocessing solutions based on reprogrammable FPGA technology for machine vision applications. The hard- and software products are designed for flexibility, easy handling and performance featuring user programmable FPGA technology.

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none

Exhibition information

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