ProSEM

What's New in ProSEM 3.3



Overview

ProSEM 3.3 Key News

- General
 - Startup package selection panel: default and re-select
 - Import of images with meta data for Elionix BODEN (EBL) tools
- Edge/ Feature Detection
 - Further clean-up of detection algorithms
 - Improvement of baseline regression
- Layout Integration/ SEM Automation
 - Robustness of layout-to-image registration improved
 - Usability of measurement list
 - Find-similar integrated in metrology jobs
 - Easy definition of large number of images/ measurements

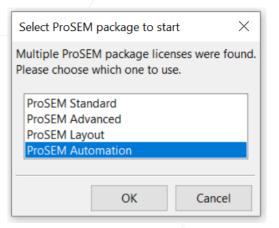


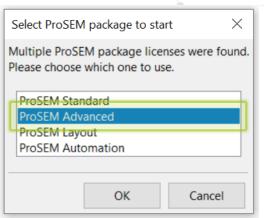
General



ProSEM Start-Up

- Selection panel on starting ProSEM
 - Improved convenience during start-up
 - Previously used package is highlighted for re-selection
 - Environment variable can define general default selection (under Windows)

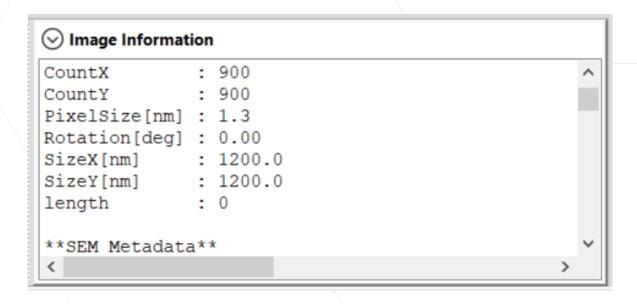






Support of Image Formats

- Import of images from Elionix BODEN implemented
 - EBL tool with SEM functionality
 - Load images and set pixel size for calibration
 - Includes all provided meta files



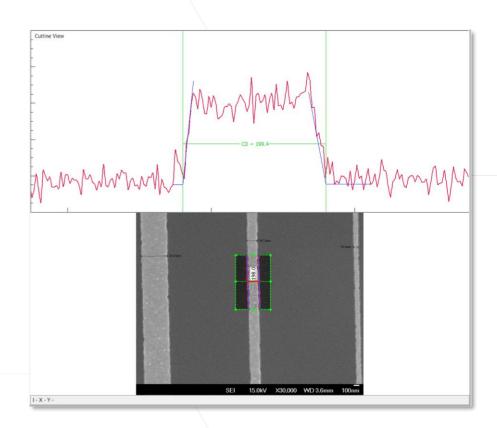


Edge/ Feature Detection



Edge/Feature Detection

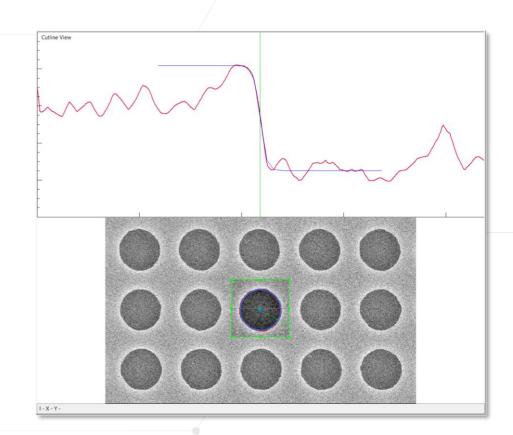
- General algorithm topics
 - Automatic selection Canny vs. Slope Analysis refined
 - Quality/ reliability of Slope Analysis
 - Regression to Baseline: initial sigmoidal fit added
 - → Improves the robustness of the detection





Two-pass Detection for Shapes

- Slanted cutline for 2-pass detection (fitted shapes)
 - Length of cutline increased
 - → Better display of edge profile and fit





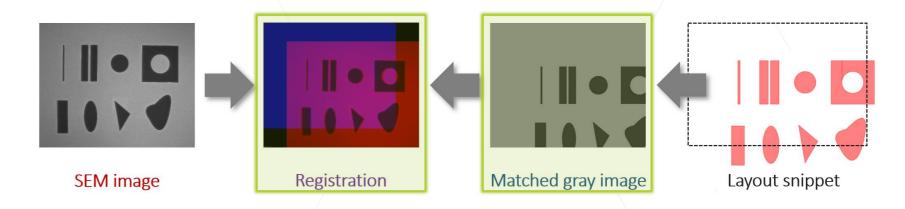
Layout/ Automation

Layout or Automation Package



Improved Registration

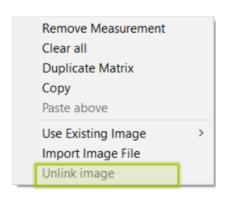
- Layout-to-Image registration
 - New architecture and algorithms
 - Alignment based on checking different edge/ image characteristics
 - Prepared for scaling and rotation correction
 - → Improved robustness/quality

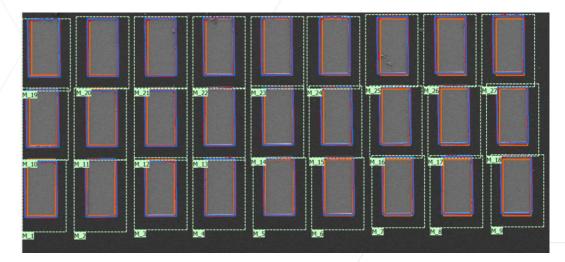


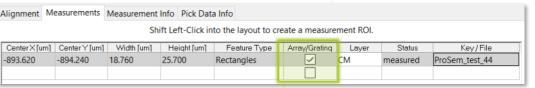


Measurements Table

- Various improvements
 - Results directly stored on image/ tree and in table
 - Find-Similar can be applied to images (afterwards)
 - Better handling of "exceptions", e.g. change layout
 - Possibility to delete image links/ measurements to change measurement or link different image



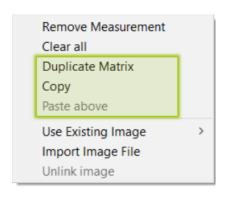


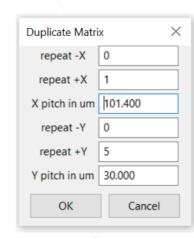


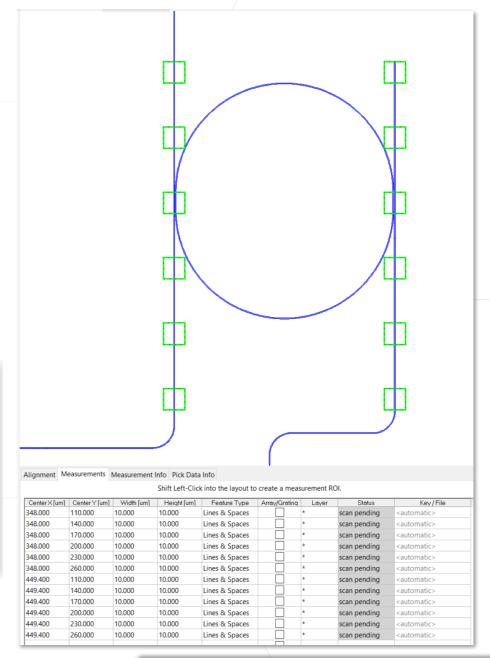


Large Metrology Jobs

- Extended functionality in context menu
 - Copy/ paste of metrology entries in table
 - Create a large matrix of metrology items regular in X/Y
 - → Useful for large number of images/ measurements









Thank You!

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