



IMAGE PROCESSING PIPELINE TOOLBOX

INO offers a MATLAB®-based framework designed to ease and accelerate the development and optimization of image processing chains. It allows subjective and quantitative comparison of state-of-the-art methods and home-made algorithms, from raw sensor denoising to image fusion and display. It can process image or video datasets, both visible and IR, making it the perfect tool for enhancing the quality of video surveillance footage.

Image Processing

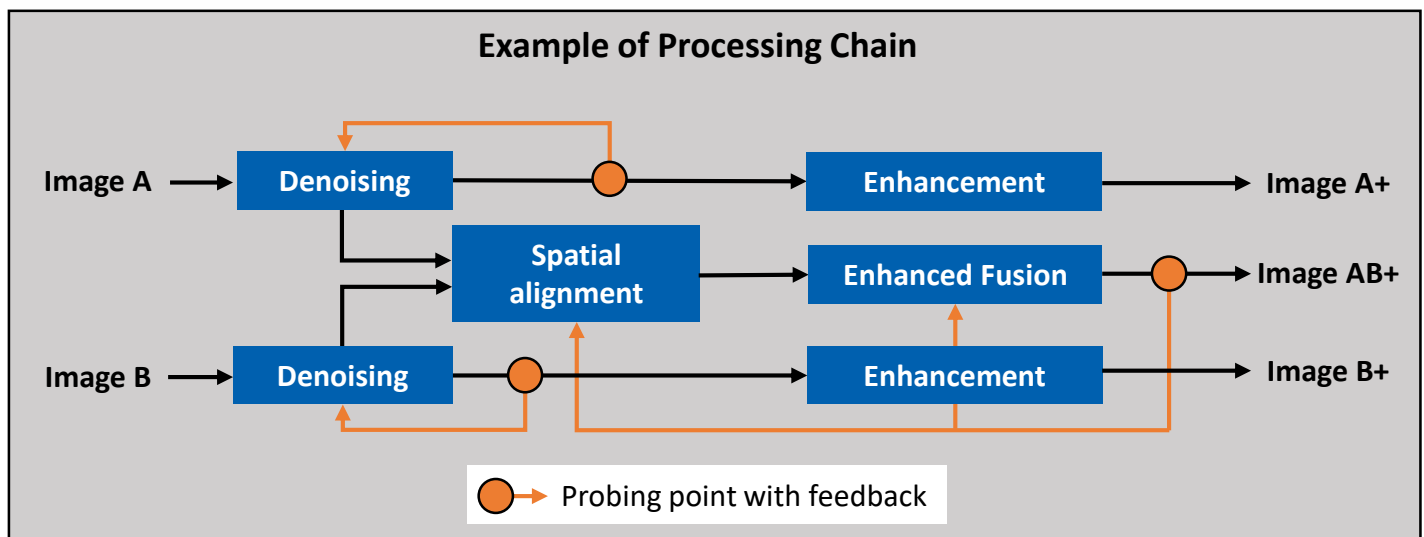
- Denoising
- Deconvolution
- Spatial alignment
- Enhancement
- Tone-mapping
- Fusion

Quality metrics

- Full reference
- No reference
- Reduced reference
- Fusion quality metrics
- Correlation metrics

Applications

- Security and Surveillance
- Industrial vision
- Medical imaging
- Sensors development
- Aerospace



Features

- Processing image or video datasets
- Multiple points probing with quantitative metrics
- Correlation ranking of metrics with subjectively ranked dataset (ground truth)
- Feedback loop for adaptation of operation parameters
- Framework supporting spatio-temporal processing blocks (temporally varying parameters)
- Support custom designed algorithms



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