Calculation of Linear Correlation

Original bitmap

Select region of interest -> Calculate linear correlation

Autocorrelation function (ATCF)

Iterative Improvement of Averaging

Allow rotation and displacement of bitmaps before averaging; use angle and displacement of highest linear correlation

Kernel average using rotation

Average bitmaps corresponding to local maxima of ATCF

Results

Kernel average

Random difference between two averages

Identify local maxima of ATCF

Optimize parameters to achieve best results

Use average of bitmaps to re-calculate the ATCF

Allow rotation of bitmaps before averaging; use angle of highest linear correlation

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