

Supplementary Material

Tensorial template matching for fast cross-correlation with rotations and its application for tomography

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1 Additional figures and tables

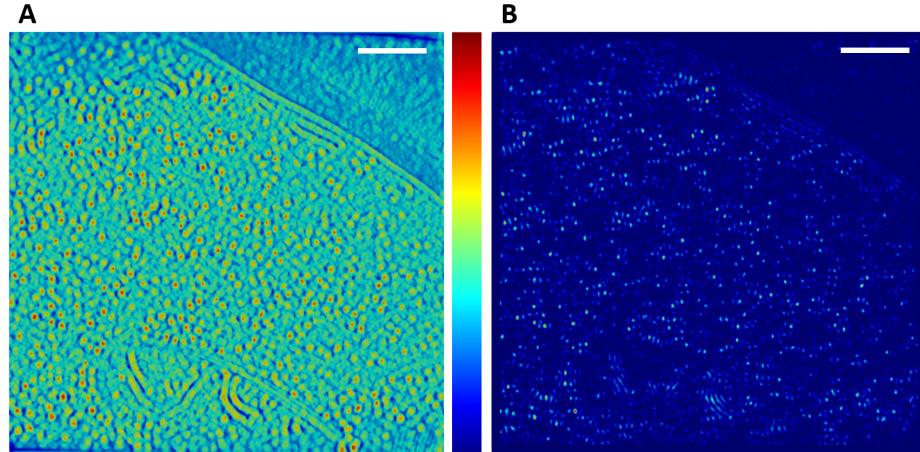


Fig. 1: Correlations maps. (A) 2D slice of the tomogram in Fig. 4 in the main text. (A) with TM cross-correlation $c_{R_{opt}}$. (B) TTM Frobenius norm \hat{c}_n . (Center) Colormap. Scale bars 2000 Å.

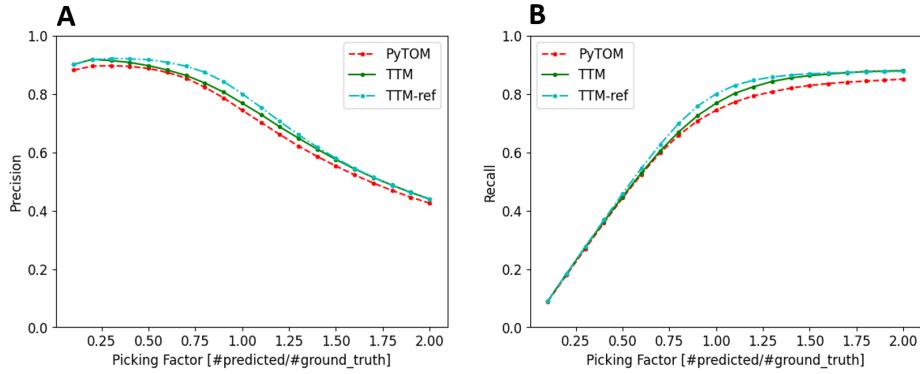


Fig. 2: Object detection performance. (A) Precision for processing the dataset EMPIAR-10988. (B) Recall.

Table 1: Detection performance in a real dataset. Left results for the best performing tomogram in EMPIAR-10988, right for the worst.

	F1-Score	Precision	Recall
PyTOM (TM)	0.82 / 0.67	0.87 / 0.81	0.78 / 0.57
TTM	0.80 / 0.64	0.80 / 0.72	0.80 / 0.58
TTM-ref	0.85 / 0.67	0.85 / 0.75	0.85 / 0.60
DeepFinder	0.84 / 0.61	0.89 / 0.69	0.8 / 0.56