

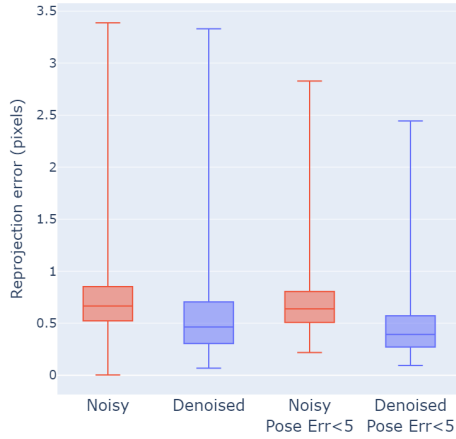


Figure R.1: **Denoising evaluation.** Reprojection error of inlier key-points before and after applying our denoising scheme, computed using the ground truth pose. The box plots show the 0.25, 0.5, and 0.75 quantiles. The two left bar plots represent the evaluation over all the image pairs in the YFCC dataset. The right two bar plots focus on image pairs whose pose prediction was accurate (i.e., pose error below 5° , where the pose error is defined as the maximum of the translation and rotation angular errors.) Evaluation was conducted on the YFCC dataset using SIFT descriptors.

Methods	#Params (M)	Max GPU Mem (MB)	Runtime Avg.(ms)
GC-RANSAC	-	-	217.3
MAGASAC++	-	-	295.29
NCMNet	4.77	174.52	67.43
BCLNet	4.87	140.91	46.94
Ours	22.14	130.75	11.12

Table R.1: **Resource Usage**, tested on YFCC with SIFT descriptors. We used for GPU an NVIDIA GeForce RTX 2080Ti and for CPU an Intel(R) Xeon(R) Gold 6248 CPU @ 2.50GHz.

Methods	mAP(%)			
	5°	10°	20°	30°
NCMNet	8.6	15.16	25.65	33.56
Ours	10.33	17.9	28.55	36.08

Table R.2: **ScanNet.** Evaluation of camera pose on the ScanNet dataset with models trained on SUN3D and SIFT descriptors. SuperGlue test split was used.

Methods	In-scene			Cross-scene		
	P(%)	R(%)	F1(%)	P(%)	R(%)	F1(%)
RANSAC	47.4	52.6	49.9	43.5	50.6	46.8
PointNet++	49.8	86.4	63.2	46.6	84.1	59.9
LFGC	56.6	86.3	68.3	54.6	84.7	66.4
OANet++	60.0	89.3	71.8	55.7	85.9	67.6
MSA-Net	61.9	90.5	73.5	58.7	87.9	70.4
CLNet	76.0	79.2	77.6	75.0	76.4	75.7
MS ² DG-Net	63.1	90.9	74.5	59.1	88.4	70.8
ConvMatch	63.0	91.5	74.6	58.7	89.3	70.9
NCMNet	78.4	81.7	79.6	77.0	78.2	77.4
BCLNet	78.4	82.5	80.1	77.3	79.7	78.3
Ours	84.6	82.9	83.2	82.2	79.1	80.2

Table R.3: **Classification Evaluation.** Inlier/outlier classification results on the YFCC dataset and SIFT descriptors. Precision(P), Recall(R), and F1 score are reported.

Category	Range	SIFT		SuperPoint	
		mAP5°(%)	#Pairs	mAP5°(%)	#Pairs
Base		66.14	4000	59.10	4000
Outlier ratio	[0, 0.7]	69.99	30	74.77	1098
	(0.7, 0.8]	82.22	225	70.67	914
	(0.8, 0.9]	80.30	1381	54.61	1278
	(0.9, 1]	56.30	2364	28.02	710
# inliers	[0, 100]	32.90	702	20.21	282
	(100, 200]	66.39	1693	36.20	674
	(200, ∞)	80.43	1605	67.77	3044

Table R.4: **Evaluation with data partition.** Essential matrix estimation accuracies on the YFCC dataset with different ratios (top rows) and numbers (bottom rows) of inliers/outliers.

Exp.	In-scene	Cross-scene
Base	60.10	66.14
2NAC blocks	53.52	59.75
Enc. Dim. 256	54.86	63.47

Table R.5: **Hyperparameters ablation studies.** Evaluation of our model with 2NAC blocks, encoder dimension of 256 and no classification head. Tested on YFCC using SIFT descriptors.