Non-Local Haze Propagation with an Iso-Depth Prior

Supplemental Material

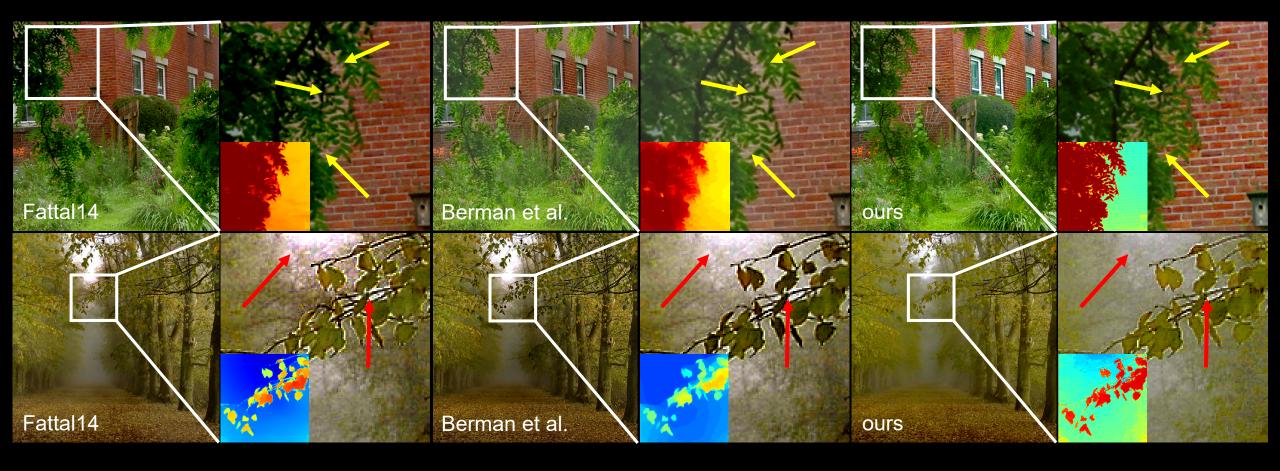
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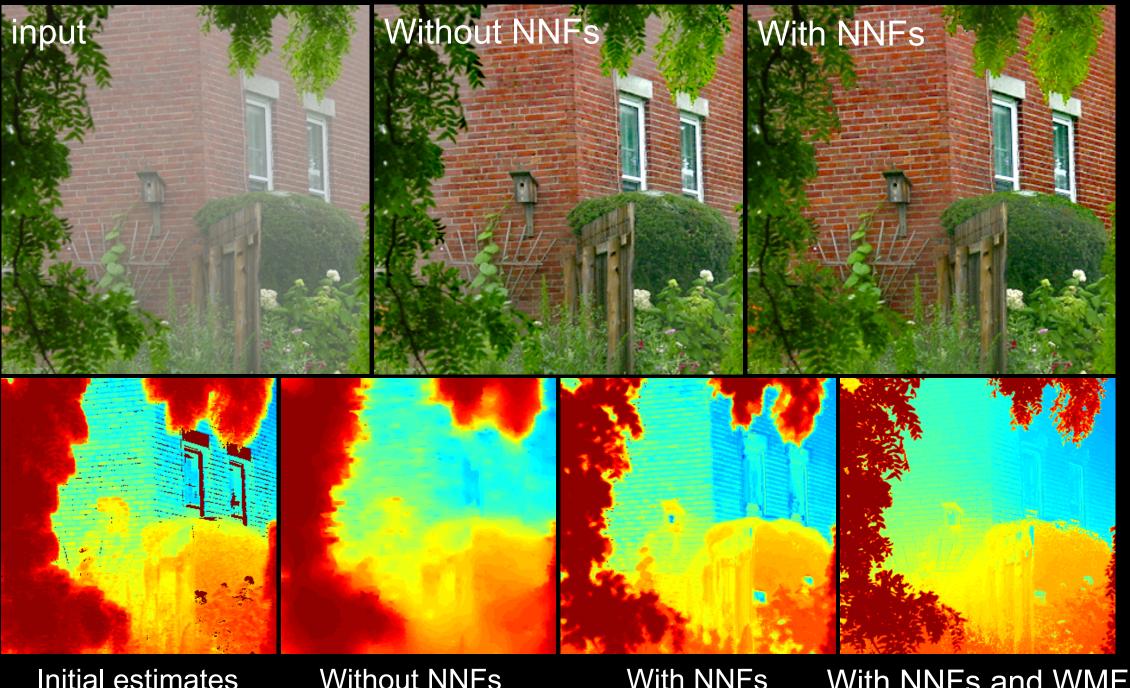
Comparison

Effect of Combining NNFs with Other Methods



Internal Comparison

Effect of Combining NNFs



Initial estimates

Without NNFs

With NNFs

With NNFs and WMF Figure 8 in the paper

Comparison

Regularization

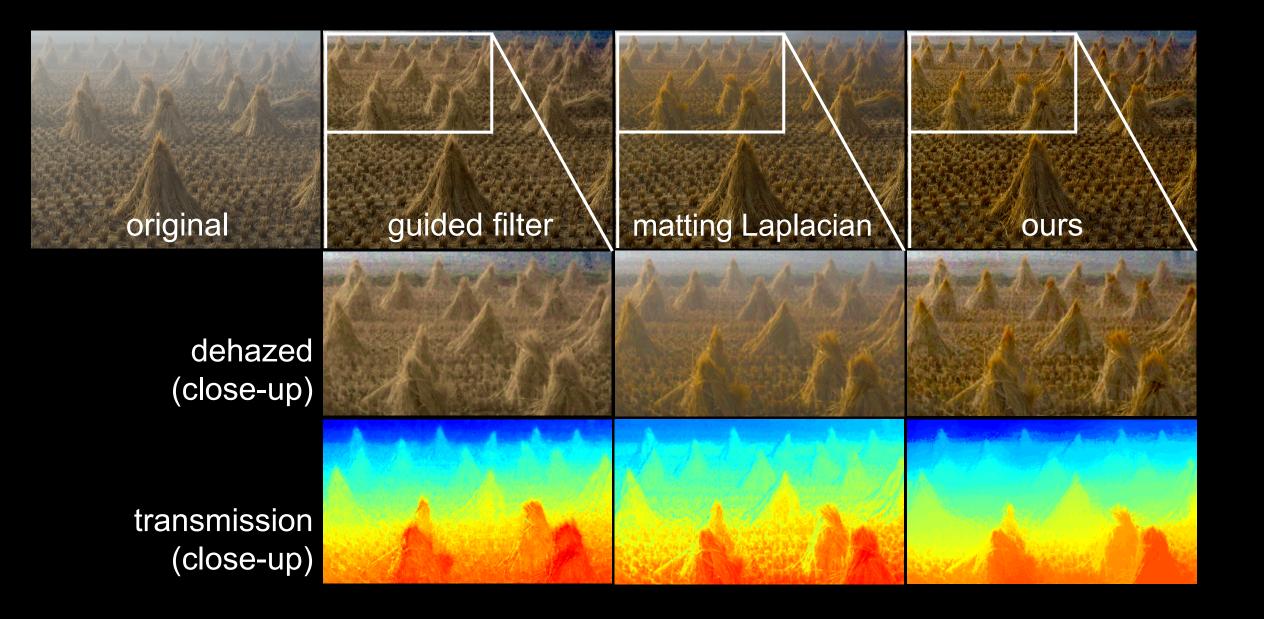


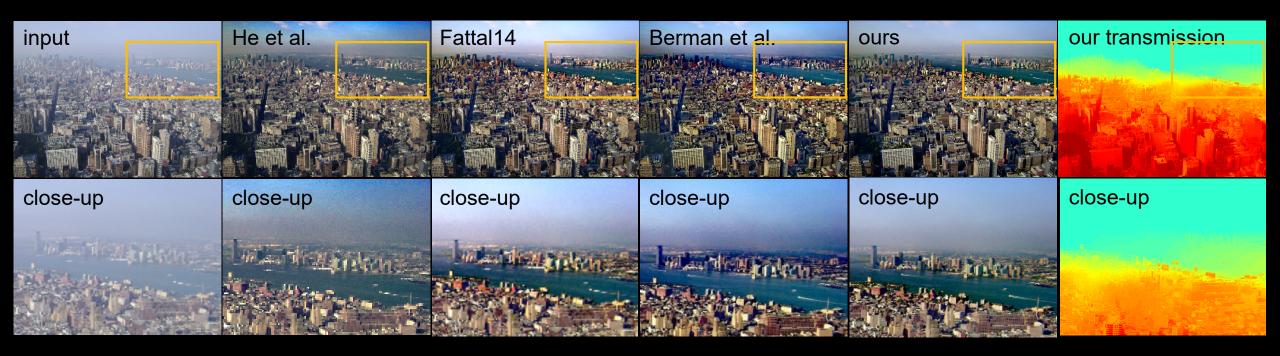
Figure 9 in the paper

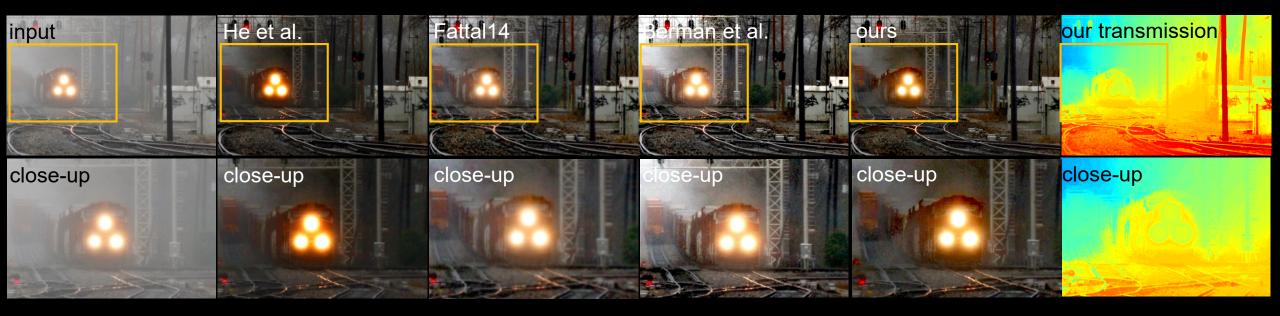
Qualitative Comparison

Single Image Dehazing





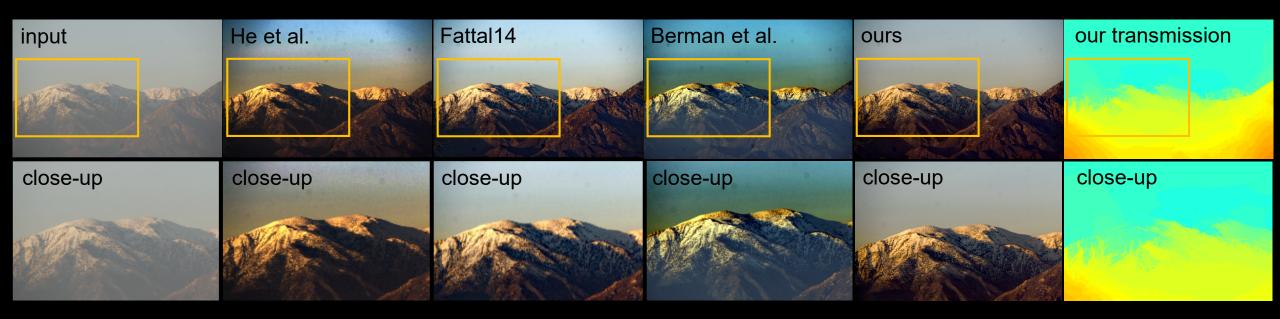






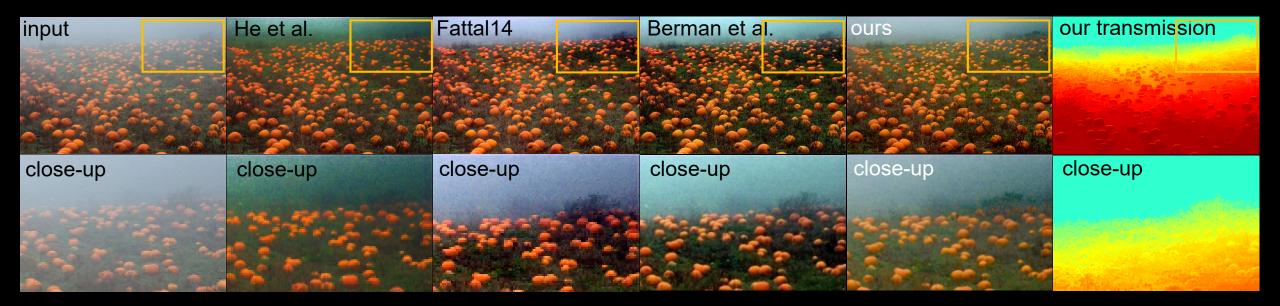


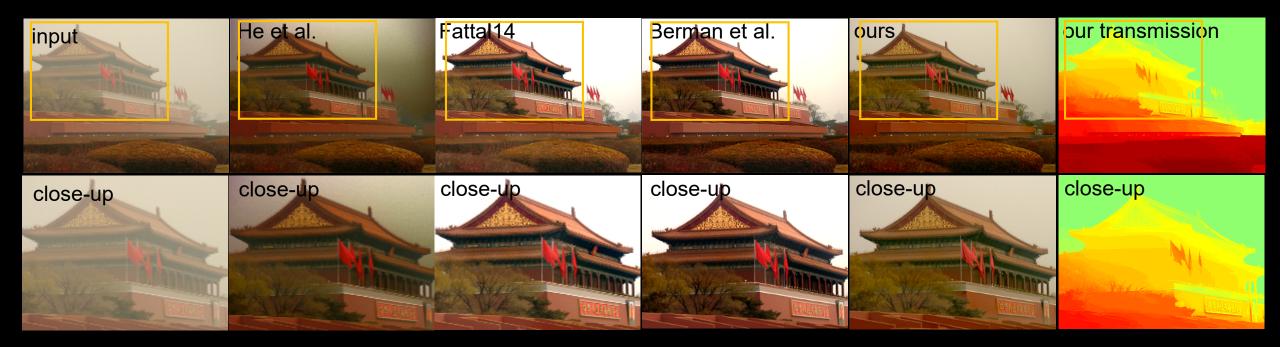




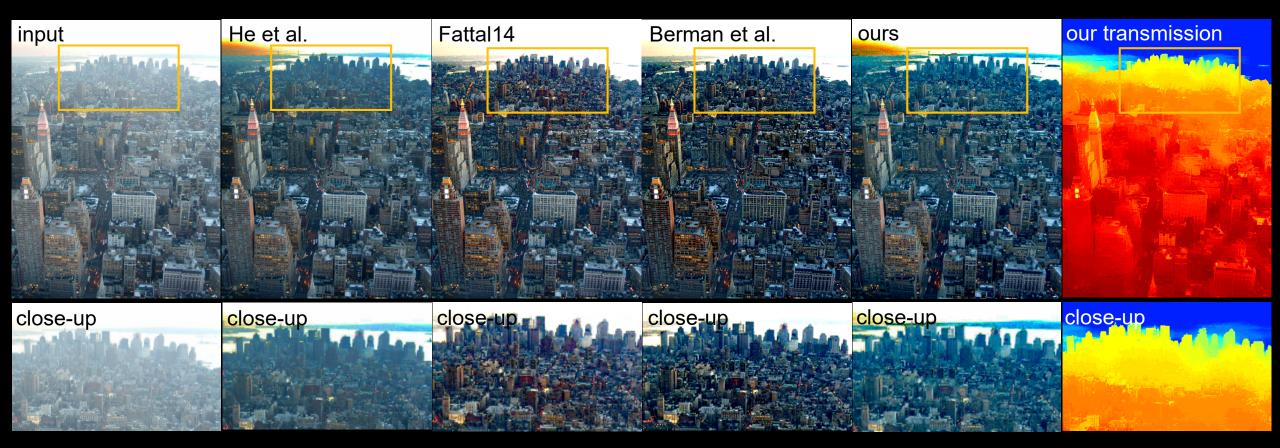


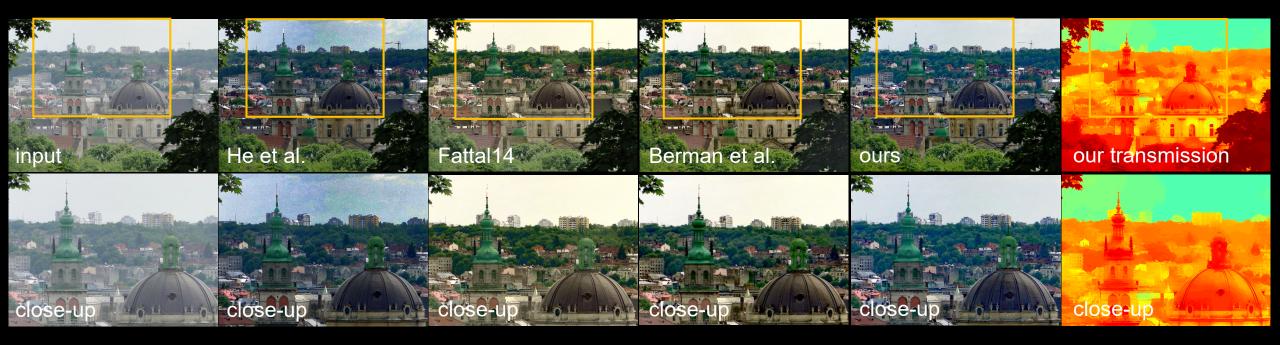




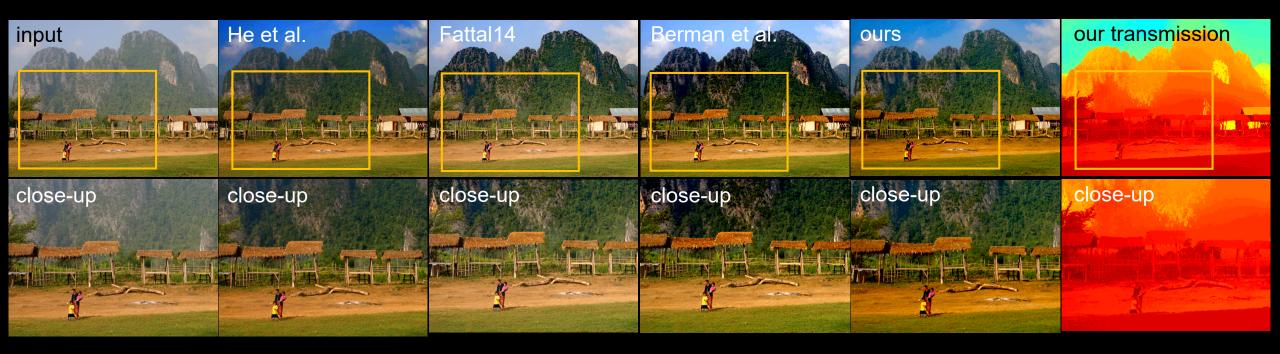








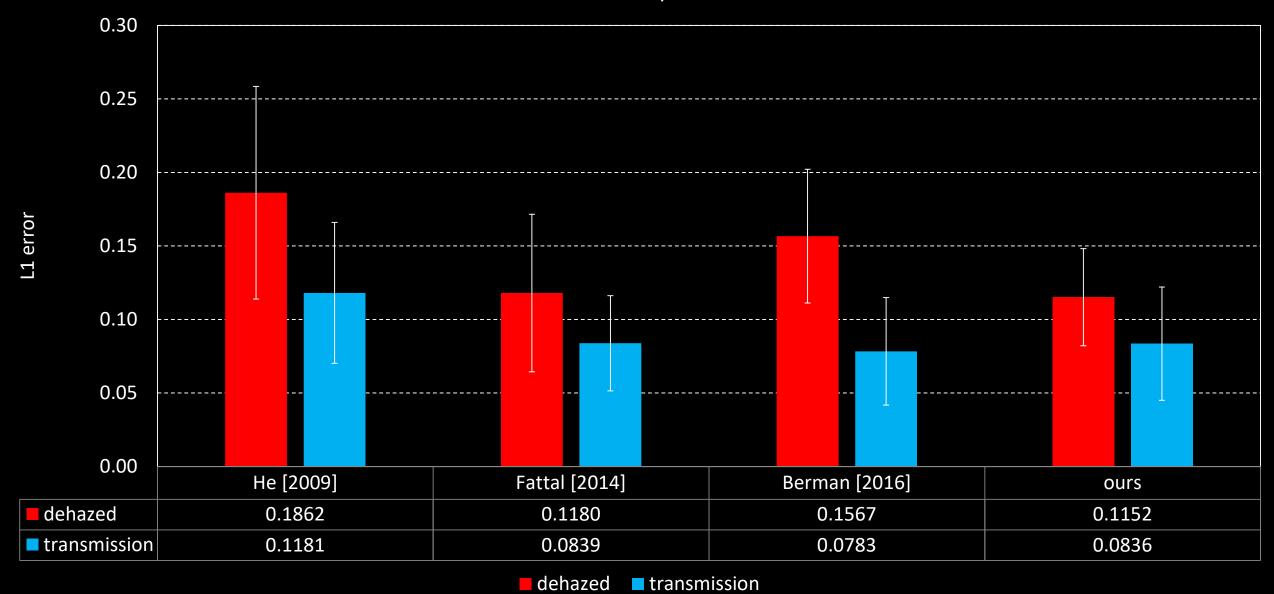


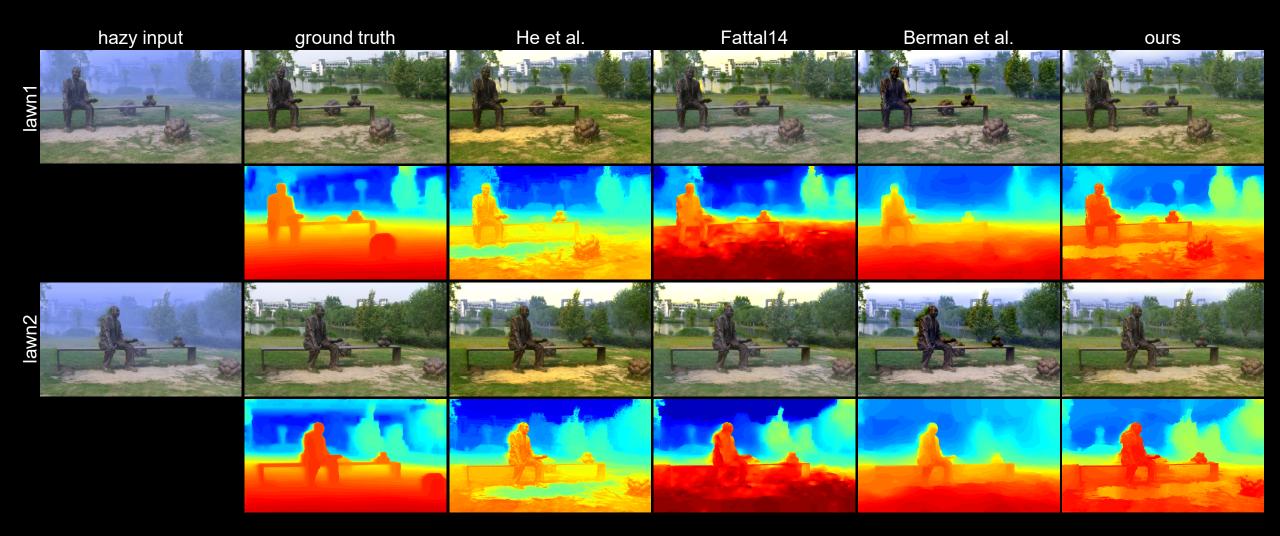


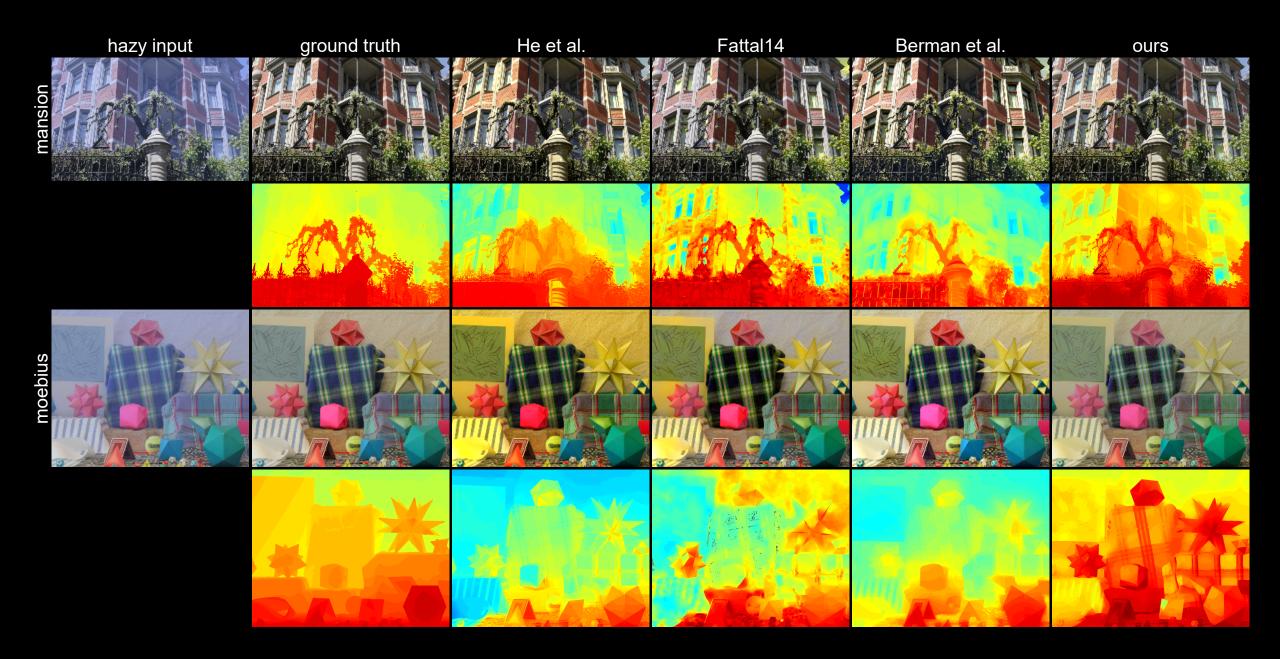
Quantitative Comparison

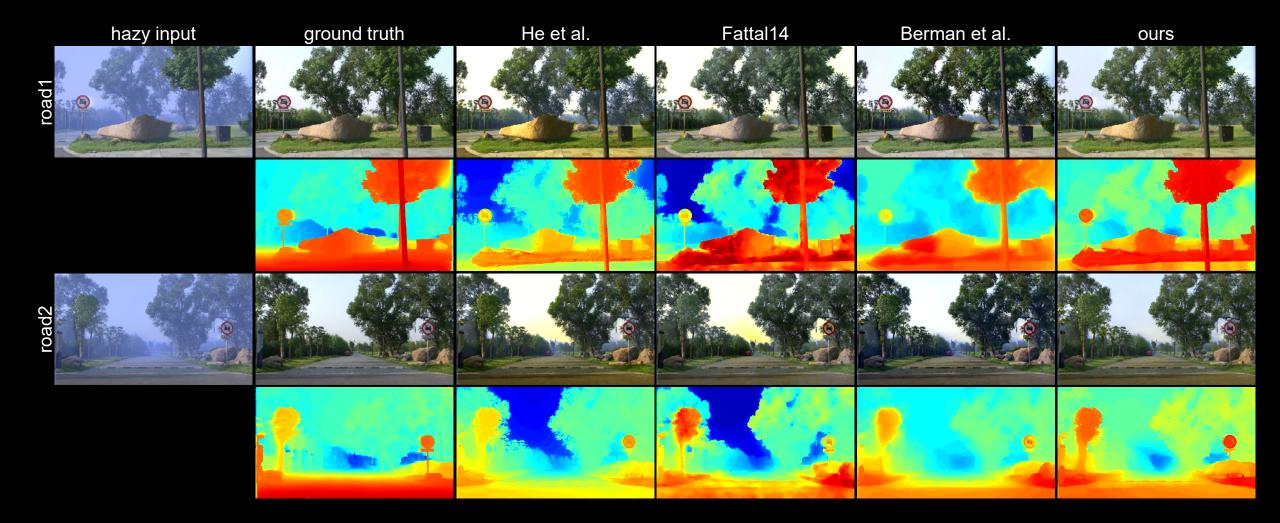
Single Image Dehazing

L1 error plot









L1 error

	He et al.	Fattal14	Berman et al.	ours
church	0.0711/0.1765	0.1144/0.1726	0.1152/0.2100	0.1901/0.1854
couch	0.0631/0.1146	0.0895/0.1596	0.0512/0.1249	0.0942/0.1463
flower1	0.1639/0.2334	0.0472/0.0562	0.0607/0.1309	0.0626/0.0967
flower2	0.1808/0.2387	0.0418/0.0452	0.1154/0.1413	0.0570/0.0839
lawn1	0.1003/0.1636	0.0803/0.1189	0.0340/0.1289	0.0604/0.1052
lawn2	0.1111/0.1715	0.0851/0.1168	0.0431/0.1378	0.0618/0.1054
mansion	0.0616/0.1005	0.0457/0.0719	0.0825/0.1234	0.0614/0.0693
moebius	0.2079/0.3636	0.1460/0.2270	0.1525/0.2005	0.0823/0.1138
reindeer	0.1152/0.1821	0.0662/0.1005	0.0887/0.2549	0.1038/0.1459
road1	0.1127/0.1422	0.1028/0.0980	0.0582/0.1107	0.0676/0.0945
road2	0.1110/0.1615	0.1034/0.1317	0.0602/0.1602	0.0781/0.1206
average	0.1181/0.1862	0.0839/0.1180	0.0783/0.1567	0.0836/0.1152

(I1 error of estimated transmission/I1 error of estimated dehazed image)

Internal Comparison

Various Patch Sizes









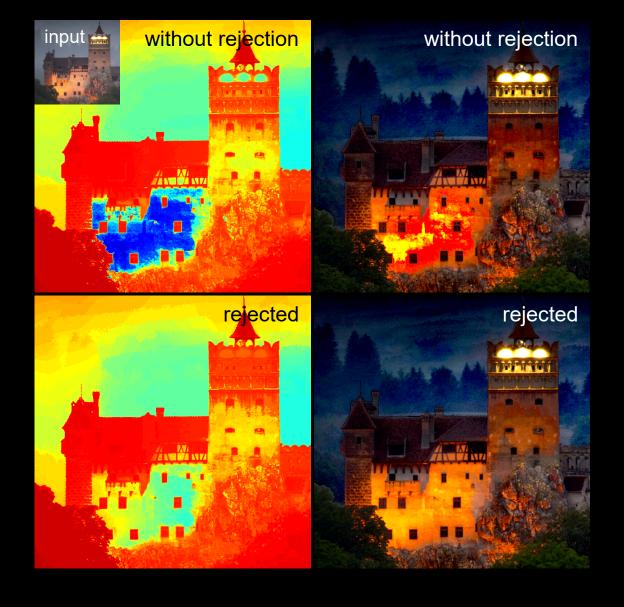
Our choice

Internal Comparison

Impact of Outlier Rejection

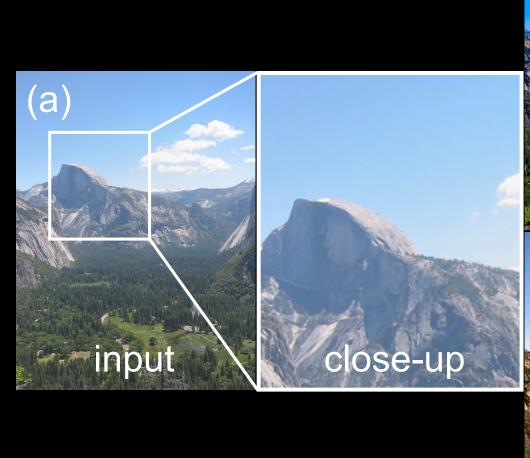


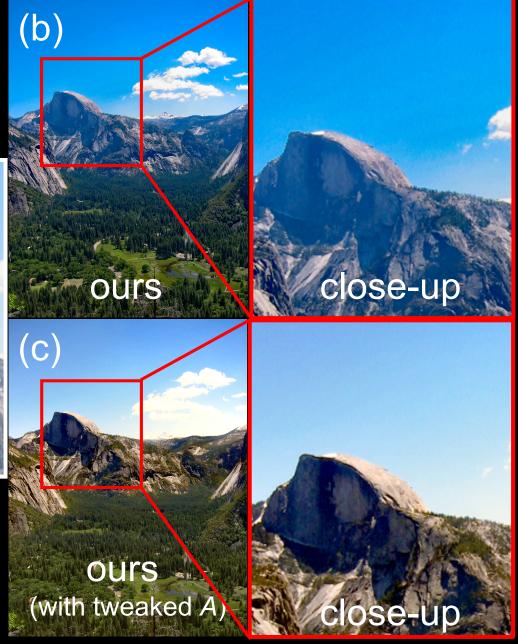
Narrow angle outlier rejection



Saturated outlier rejection

Limitations





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