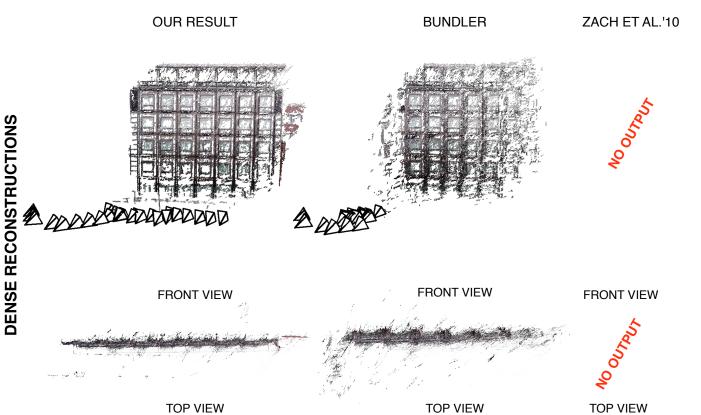
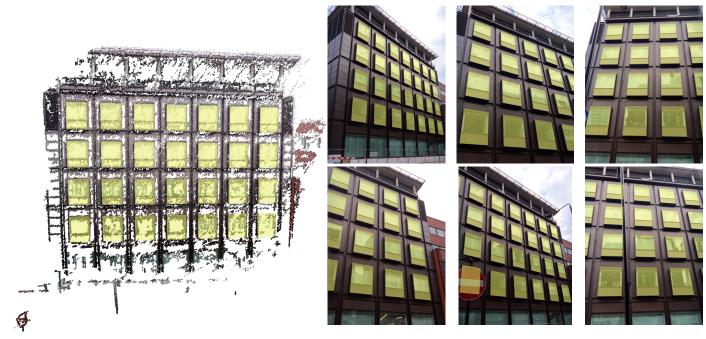
Supplementary Material

November 18, 2012

In this supplementary material, we provide additional results. For each data set we have presented in the paper, we include example input images and the user template provided to guide the repetition detection. We show the calibration results of our framework and compare to the results obtained by Bundler [Snavely et al. 2006] and the method of Zach et al. [2010]. In order to make this comparison more clear, we demonstrate the dense reconstructions produced by PMVS [Furukawa and Ponce 2007], a state-of-the-art multiview stereo algorithm, using the camera parameters computed by each method. We also show the final 3D grid and its projection in several example images. Finally, we provide various editing results. For the occlusion removal examples, we also show results produced by Patchmatch [Barnes et al. 2009] on the reference images.

Please note that for data sets *Building 7* and *Building 8*, the method of Zach et al. [2010] calibrated the cameras as 3 subsets and we provide the dense reconstructions using each subset.





3D GRID (7-by-4)

EXTRACTED SYMMETRIES

3D GRID PROJECTED ON TO THE IMAGES

EXTRACTED SYMMETRIES

BUNDLER



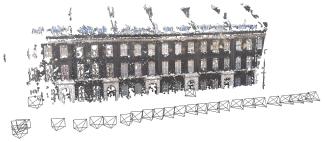


Building 2 (27 images)

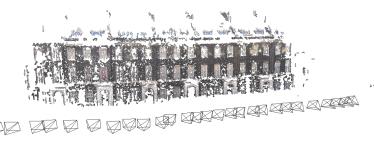




FRONT VIEW



FRONT VIEW



FRONT VIEW



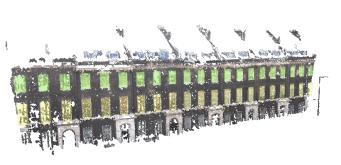
TOP VIEW



TOP VIEW



TOP VIEW



3D GRIDS (21-by-1)





3D GRIDS PROJECTED ON TO THE IMAGES









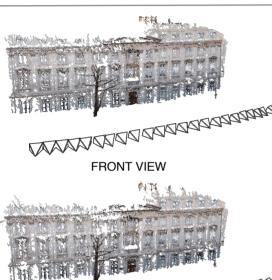


OUR RESULT

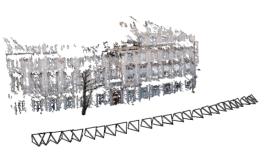
BUNDLER

CVPR'10









FRONT VIEW

FRONT VIEW





TOP VIEW



TOP VIEW



TOP VIEW











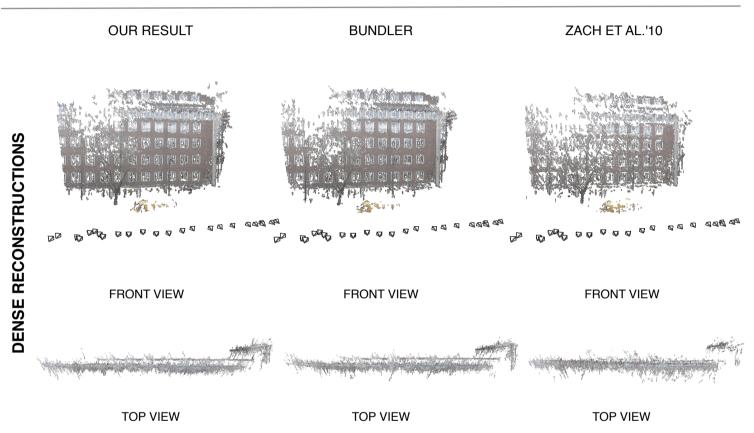




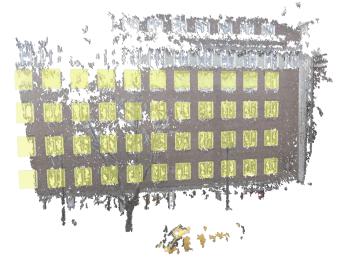




Building 4 (24 images)



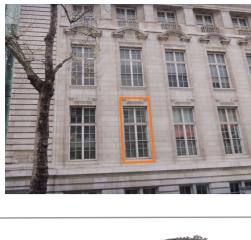








DENSE RECONSTRUCTIONS





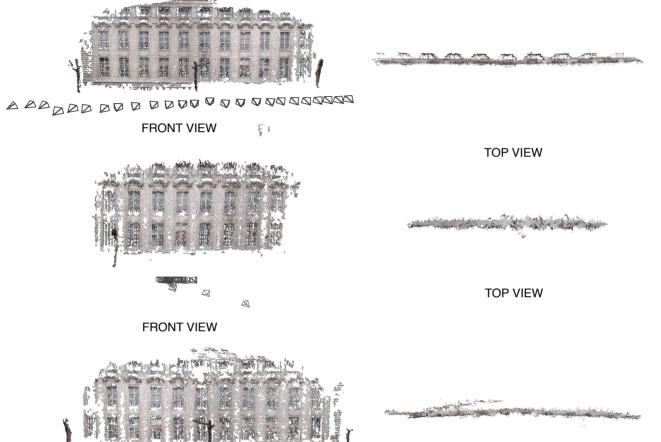


OUR RESULT

BUNDLER

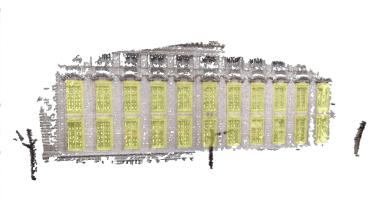
ZACH ET AL. '10

Building 5 (25 images)



FRONT VIEW





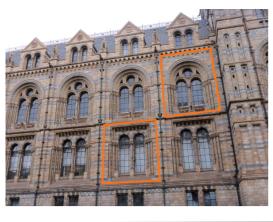
3D GRID (11-by-2)







3D GRID PROJECTED ON TO THE IMAGES





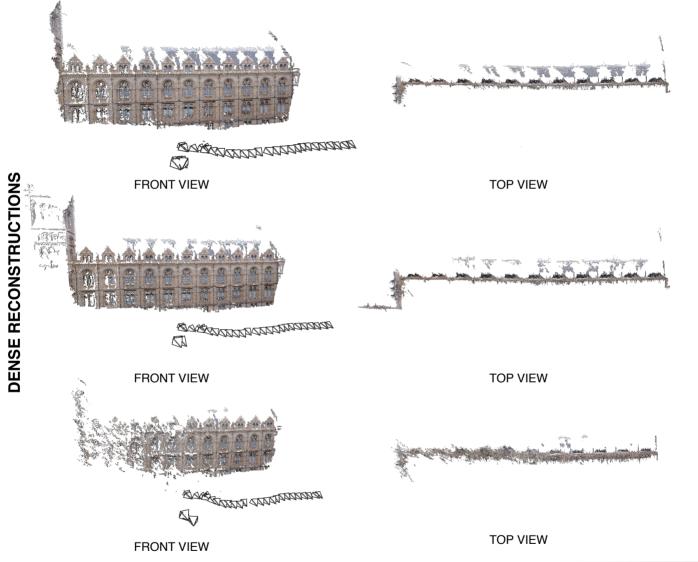


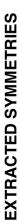
OUR RESULT

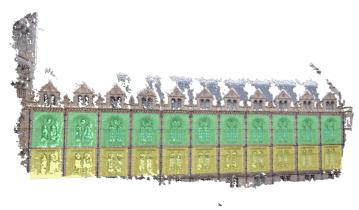
BUNDLER

ZACH ET AL.'10

Building 6 (32 images)







3D GRIDS (11-by-1)









3D GRID PROJECTED ON TO THE IMAGES













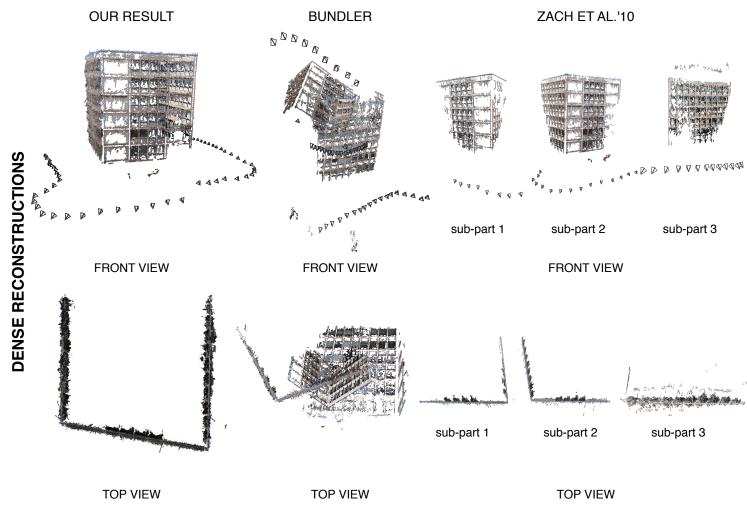


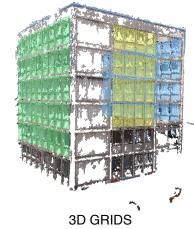


Building 7 (51 images)









EXTRACTED SYMMETRIES



















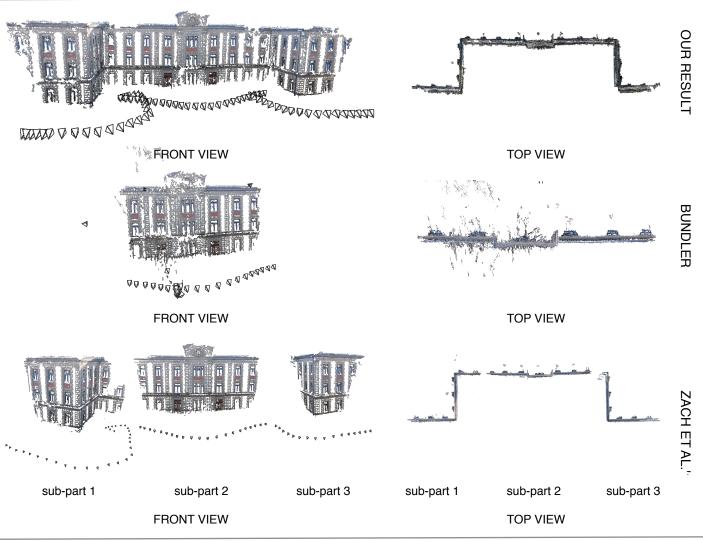




Building 8 (72 images)















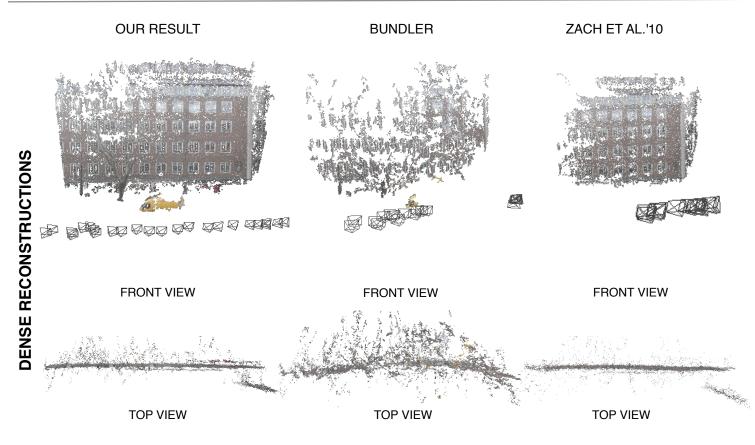
SYMMETRY DETECTION

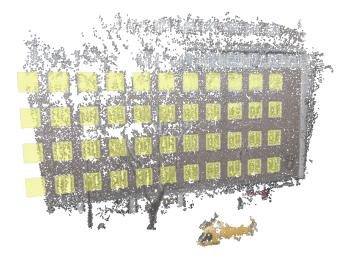






Building 4 Low Res. (24 images)













OCCLUSION REMOVAL EXAMPLES

REFERENCE IMAGE







OUR RESULT

BARNES ET AL.'09

PROPAGATION TO OTHER IMAGES













INPUT OUTPUT

REFERENCE IMAGES







OUR RESULT

BARNES ET AL.'09

PROPAGATION TO OTHER IMAGES













INPUT OUTPUT

REFERENCE IMAGES







BARNES ET AL.'09

OUR RESULT

PROPAGATION TO OTHER IMAGES

















REFERENCE IMAGES









OUR RESULT





BARNES ET AL. '09

PROPAGATION TO OTHER IMAGES



如田田東西田田

日田田













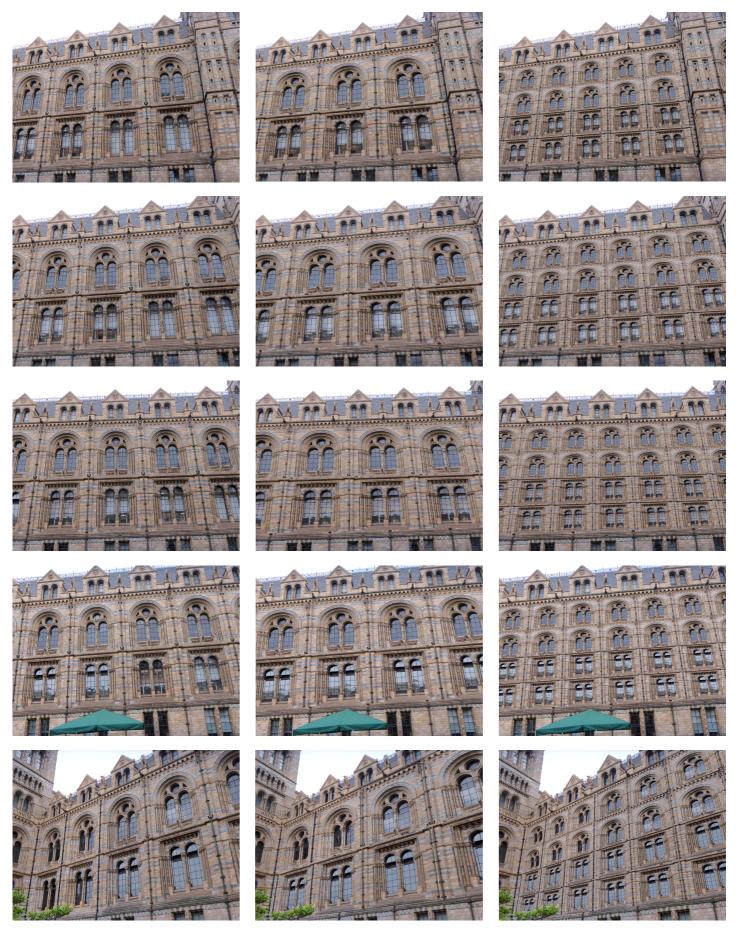




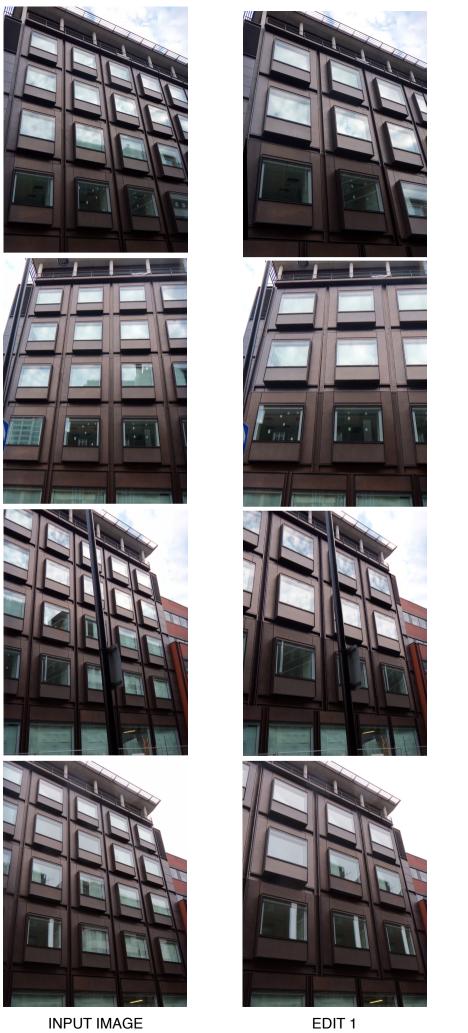


INPUT OUTPUT INPUT OUTPUT

GRID EDITING EXAMPLES



INPUT IMAGE EDIT 1 EDIT 2





EDIT 2























