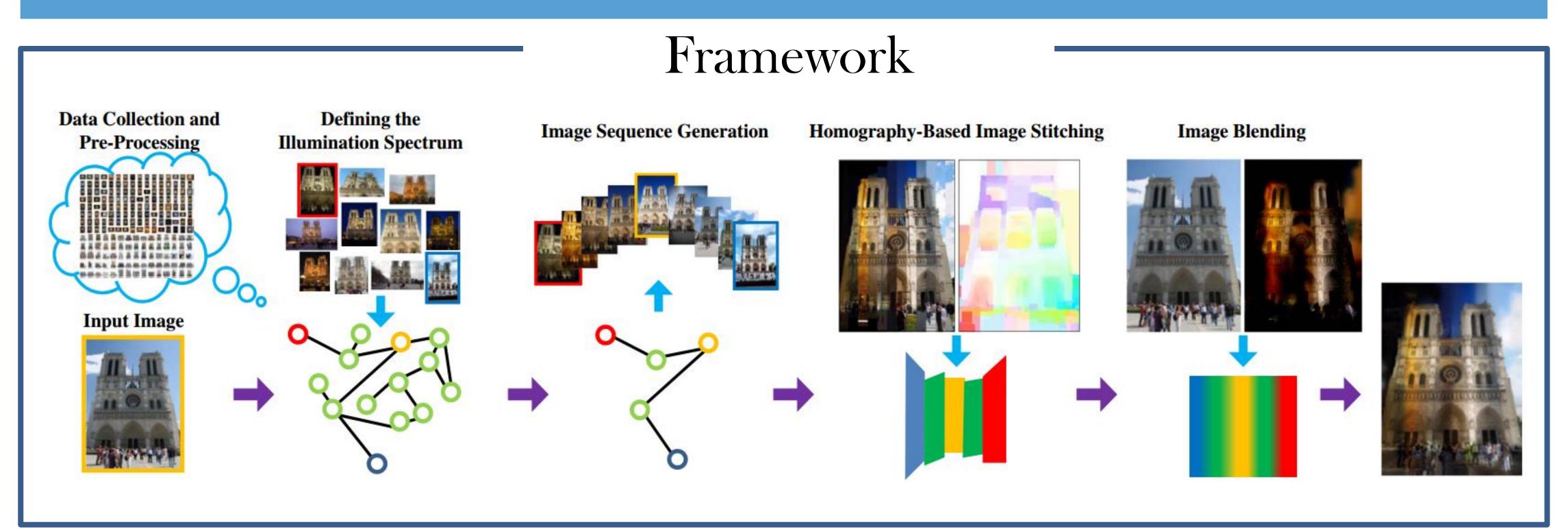
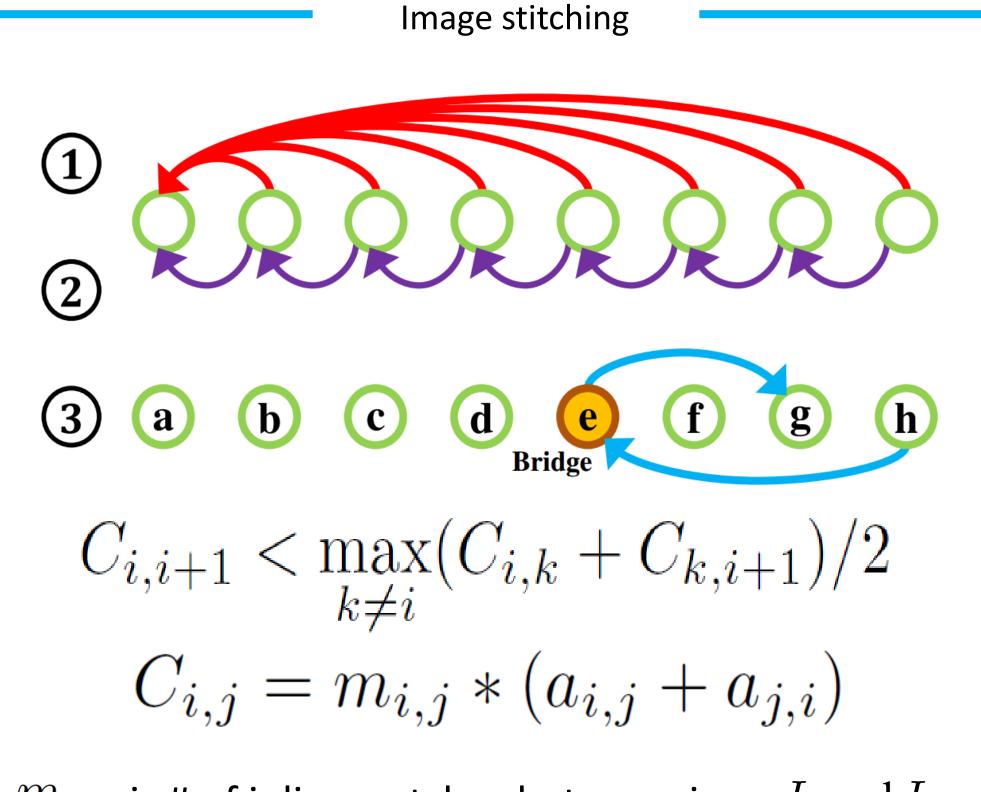
Synthesizing Illumination Mosaics from Internet Photo-Collections Dinghuang Ji, Enrique Dunn, and Jan-Michael Frahm



Goals

- 1. Automatically find image sequences that have smooth illumination transition from Internet photo collections.
- 2. Generate illumination mosaics that convey large range of scene appearance.

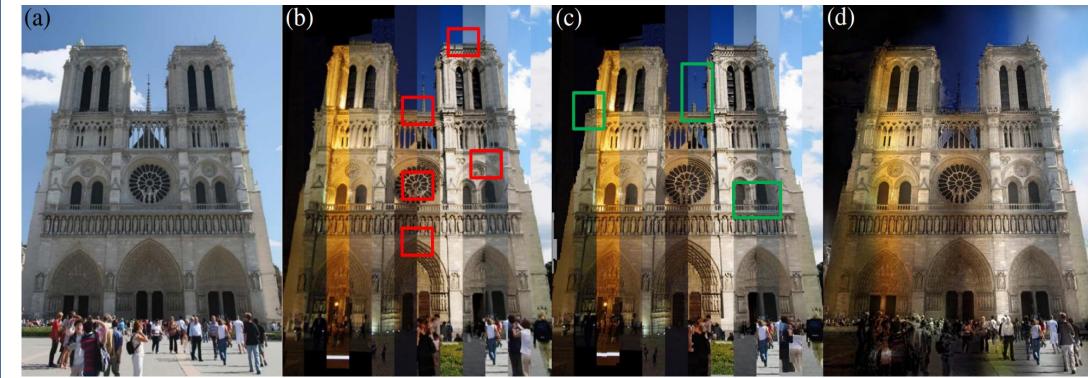
Color Histogram Capture the appearance variance Capture the spatial composition Capture well-illuminated images



 $m_{i,j}$ is # of inlier matches between imag I_i and I_j $a_{i,j}$ is convex hull area ratio attained by inliers

Experiments

Homography Homography SIFT-flow Color Alignment Alignment transfer



Comparisons with previous works[1][2]



More Results



[1] E. Reinhard, M. Ashikhmin, B. Gooch, and P. Shirley. Color transfer between images. Computer Graphics and Application, 21(5):3441, 2001.

[2] Y. Shih, S. Paris, F. Durand, and W. Freeman. Data-driven hallucination for different times of day from a single outdoor photo. ACM Transactions on Graphics (TOG), 32(6), 2013



