

Nazariy Bachynsky

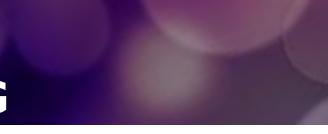


SOMETHING WITH IMAGES...



IMAGE STITCHING

Image stitching or photo stitching is the process of combining multiple photographic images with overlapping fields of view to produce a segmented panorama or high-resolution image









(f) RANSAC inliers 2



(g) Images aligned according to a homography



(a) Image 1



(b) Image 2



(c) SIFT matches 1



(d) SIFT matches 2













(d) SIFT matches 2



SIFT

Scale Invariant Feature Transform

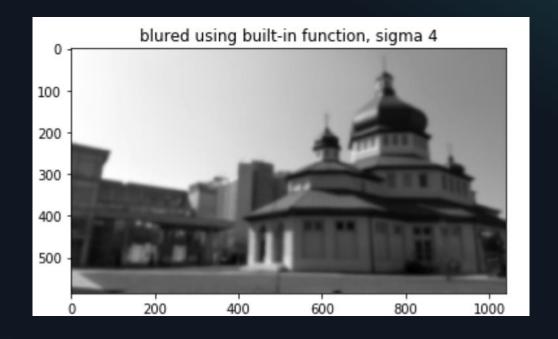
- Scale-space extrema detection
- Keypoint localization
- Orientation Assignment
- Keypoint Descriptor



blured with own function, sigma 4

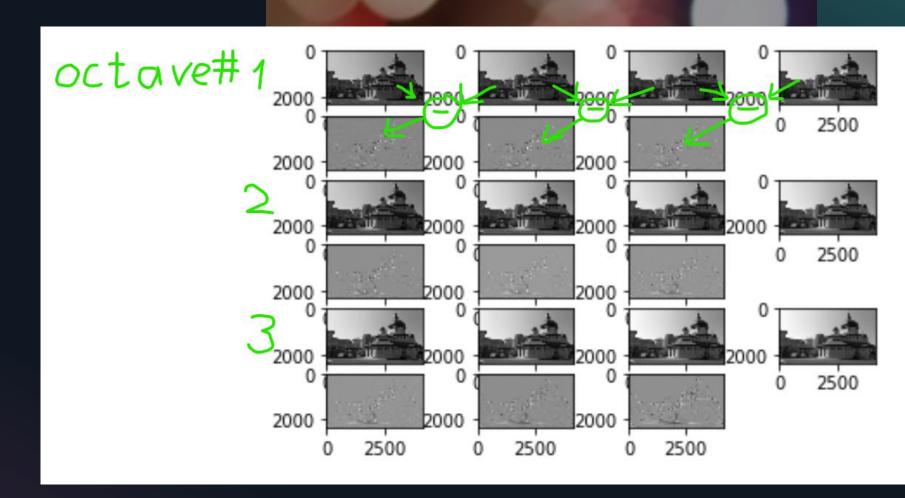
GAUSSIAN BLUR

A little remark





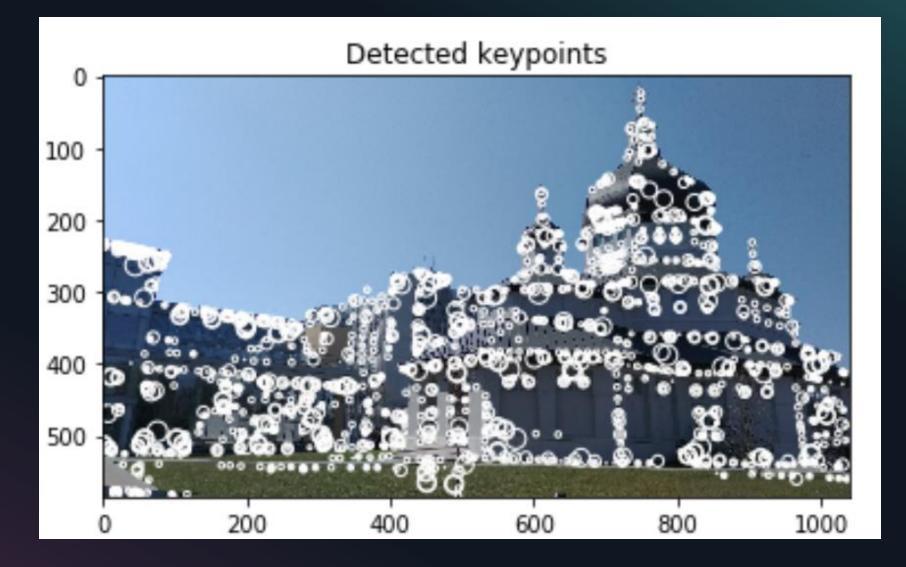
Differences of Gaussians (DoG)



 $\left(\begin{array}{c} 6 \end{array}\right)$

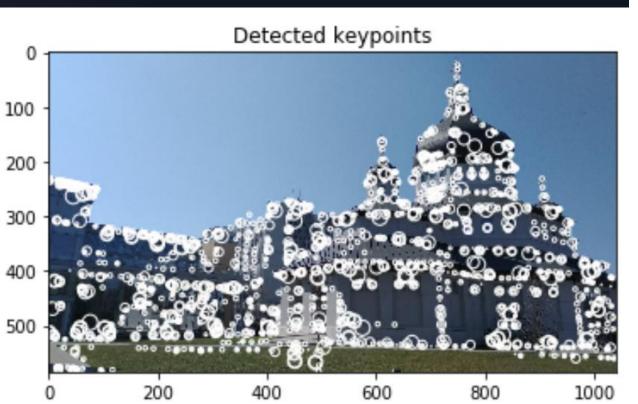
CS@UCL

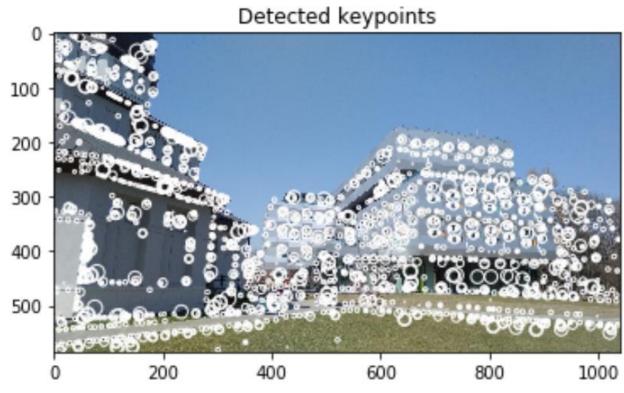




7 CS@UCU 22.05.2019





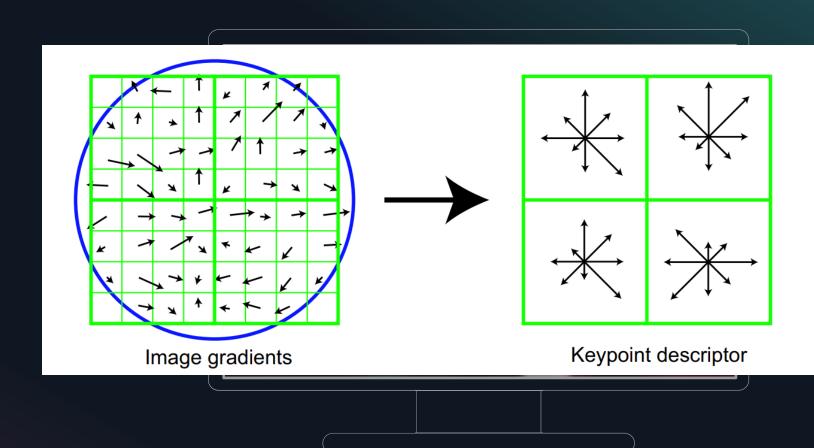


22.05.2019



KEYPOINT DESCRIPTOR

Is made from image gradients' magnitudes and orientations

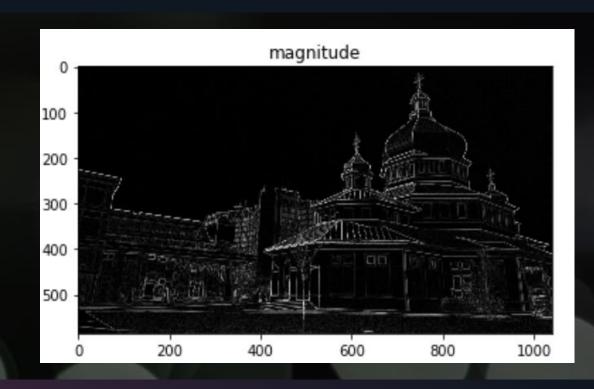


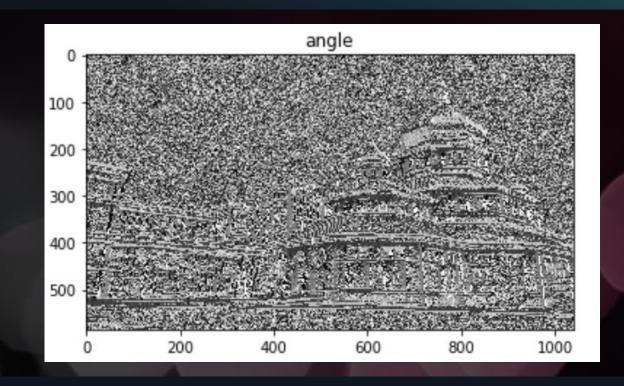
(9)

CS@UCL



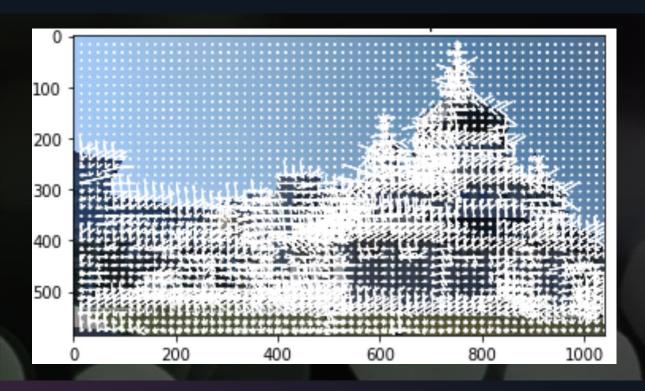
GRADIENTS

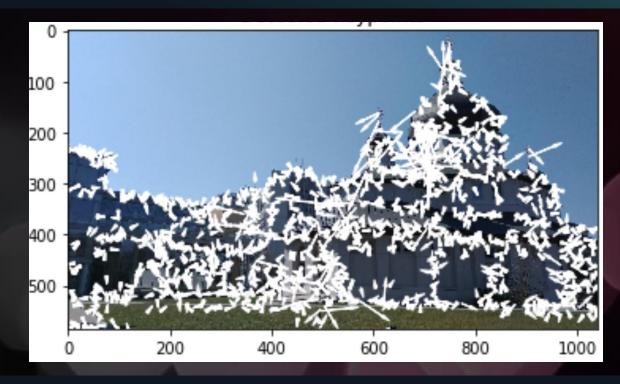




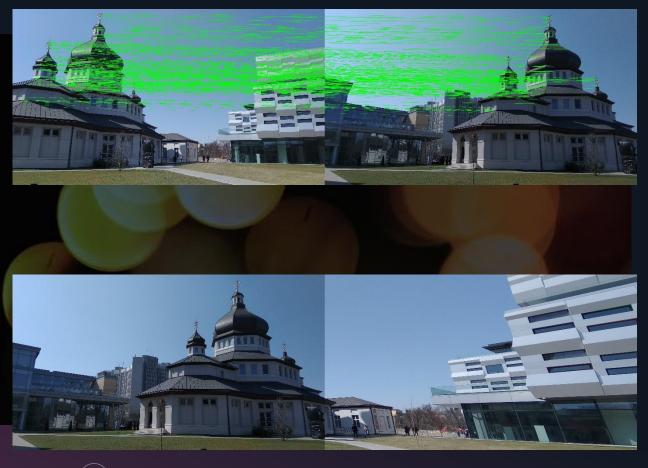


GRADIENTS









SUMM ARY ER

The next things to do



(b) Without gain compensation



(c) With gain compensation



(d) With gain compensation and multi-band blending





Gaussian Blur



THINGS THAT ARE MADE



Difference of Gaussians



Image gradients



Feature Descriptors



OUR TEAM



Nazariy Bachynsky

Does all stuff



Thanks for attention!