Real time People Counter

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Goal/Problem

Counting the number of people in a given area by watching the exit and counting people leave/enter

Background research

Face detection

Edge detection/classifiers (histogram of gradients)

Circle detection (circular hough transform)

Method - background subtraction

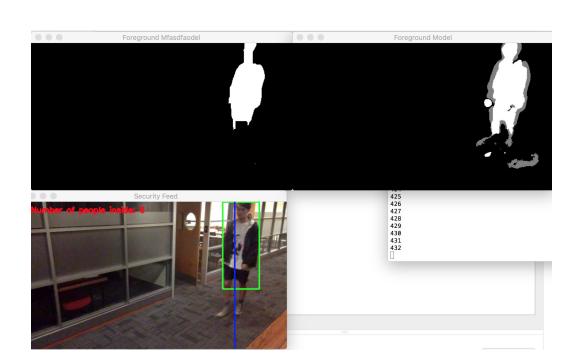
Gaussian blur/resizing

Background subtraction

Closing/thresholding

Contours

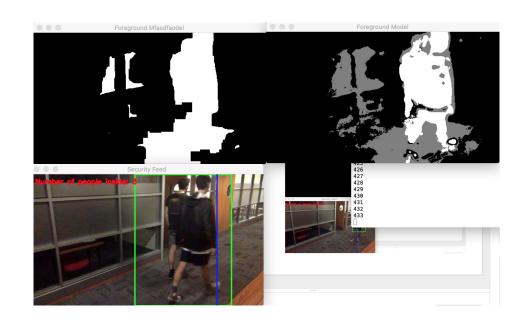
Track center of each object



Results

87.5% accuracy - similar to previous experiments

Improvement on face detection as it doesn't rely on specific camera angles



Conclusion

Pretty good

Needs segmentation