

Example of Adaptive Change Detection

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TEST SCENE

BACKGROUND IMAGE

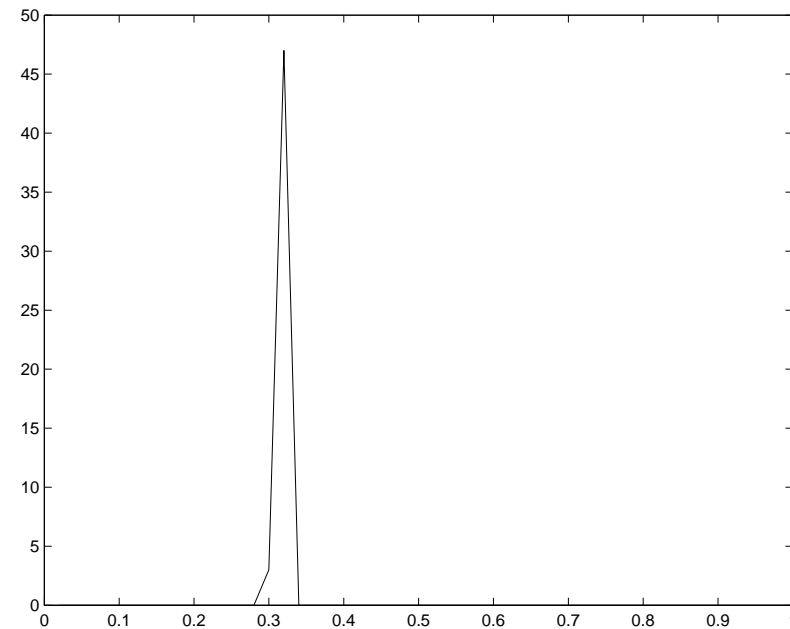
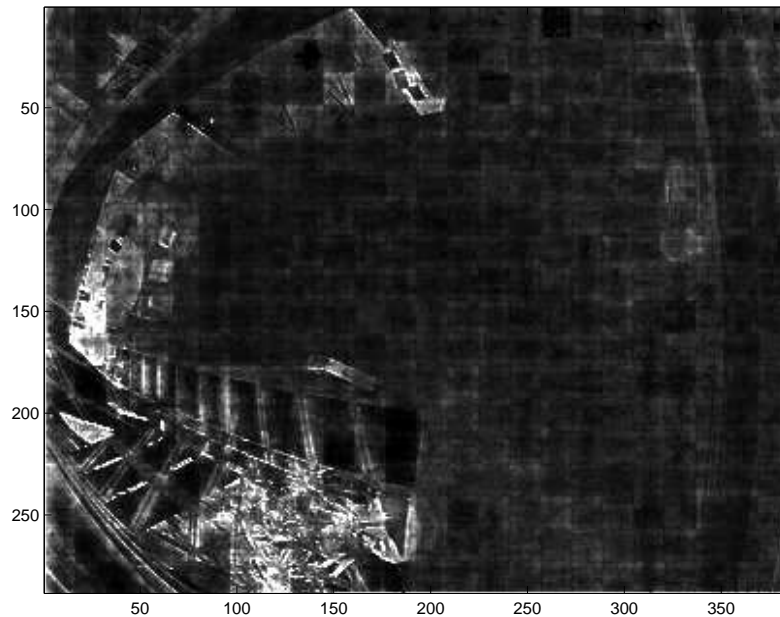
TYPICAL IMAGE



DISTRIBUTION RESULTS

σ

50 SAMPLES X_i AT
PIXEL (100,100)



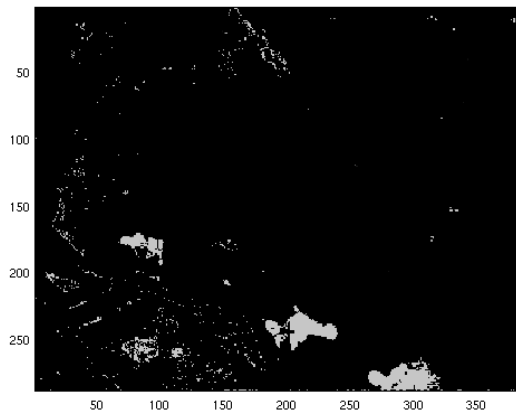
BACKGROUND



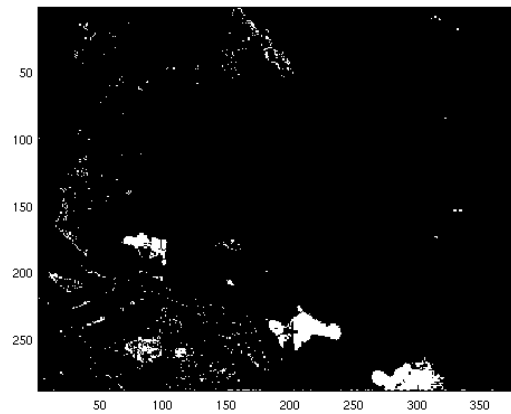
TYPICAL IMAGE



PROBABILITY



THRESHOLDED



NOISY DETECTION VIDEO

SEE: [homepages.inf.ed.ac.uk/rbf/...
...AVINVERTED/DEMOS/TRACK/demo2.html](http://homepages.inf.ed.ac.uk/rbf/...AVINVERTED/DEMOS/TRACK/demo2.html)

Lots of noisy pixels around

What We Have Learned

1. Target detected, but noise can be a problem
2. Compression artifacts