

README for Abnormal Event Detection System

Our code is to demonstrate abnormal event detection in our Avenue dataset, based on the sparse combination learning algorithm described in the following paper

"Abnormal Event Detection at 150 FPS in Matlab" , Cewu Lu, Jianping Shi, Jiaya Jia,
International Conference on Computer Vision, (ICCV), 2013.

The code and the algorithm are for non-commercial use only.

Details

demo.m is used to demonstrate our detection result.

abnormality_event_system.m contains learning sparse combinations and testing its overall accuracy and average time performance on our contributed Avenue dataset. Before you run it, please download Avenue dataset from our website. Thus, put document "testing_vol" and "training_vol" in data fold.

We use the resize version of videos with size 120 x 160 (in "testing_vol" and "training_vol"). We also provide full resolution video of avenue dataset, please download from our webpage.



REFERENCES

[1] Cewu Lu, Jianping Shi and Jiaya Jia

Abnormal Event Detection at 150 FPS in Matlab

IEEE International Conference on Computer Vision (ICCV), 2013