

Study of activities on Amcrest View Camera

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1 Spectrograms of EMI activity of Amcrest View Camera

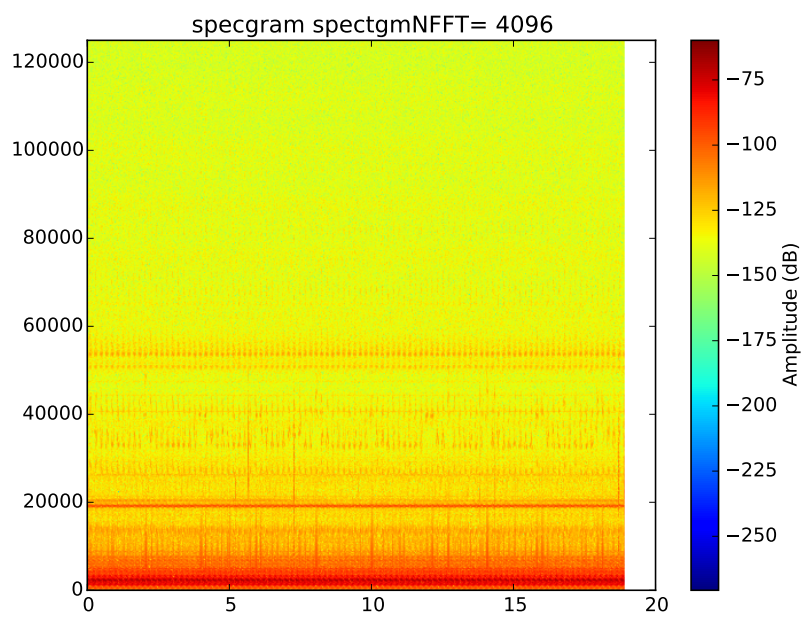


Figure 1: The device is not instructed to do any function and is idle after boot

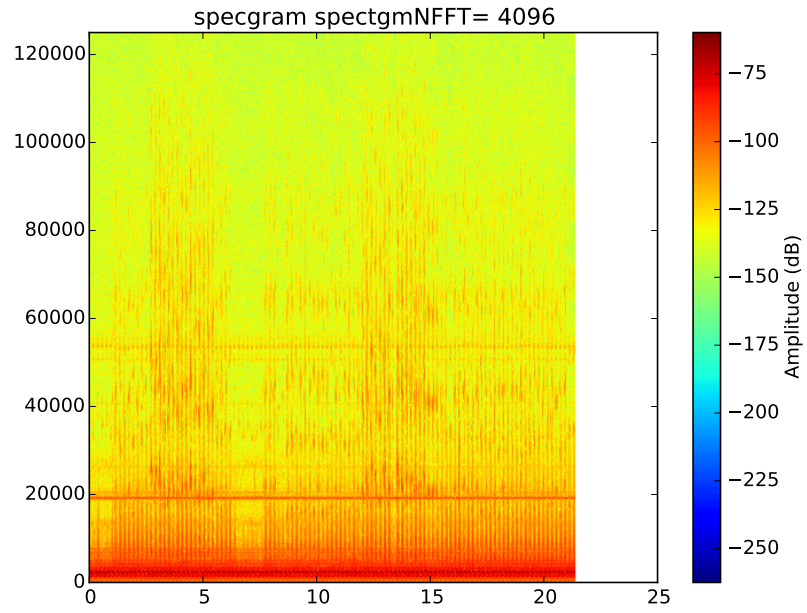


Figure 2: The devices is streaming a video while one moves around the camera directions

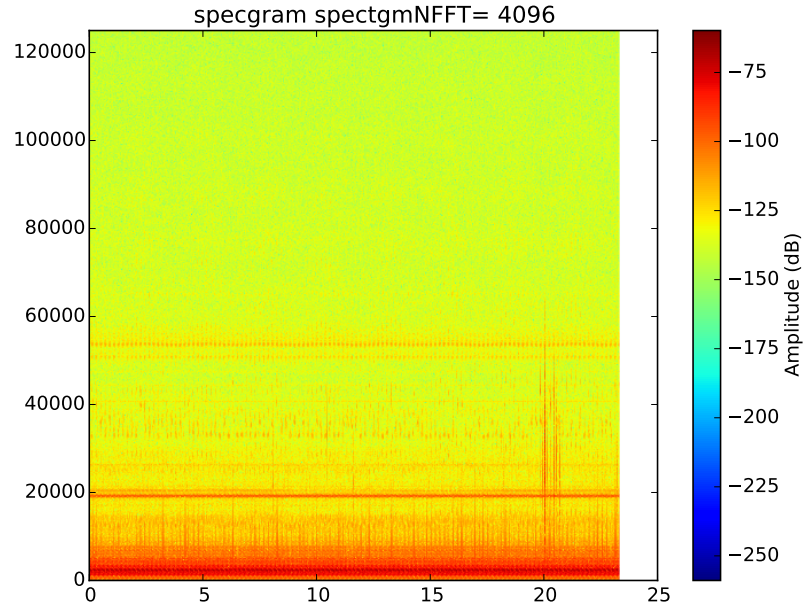


Figure 3: The device is recording a video, instructed using a mobile app

2 Result

Classification of three different activities was attempted with almost 90% accuracy on Amcrest camera.

- Camera is idle (after reboot)
- Camera is recording data when instructed by mobile app
- Camera is streaming data when instructed by mobile app and moving the camera directions

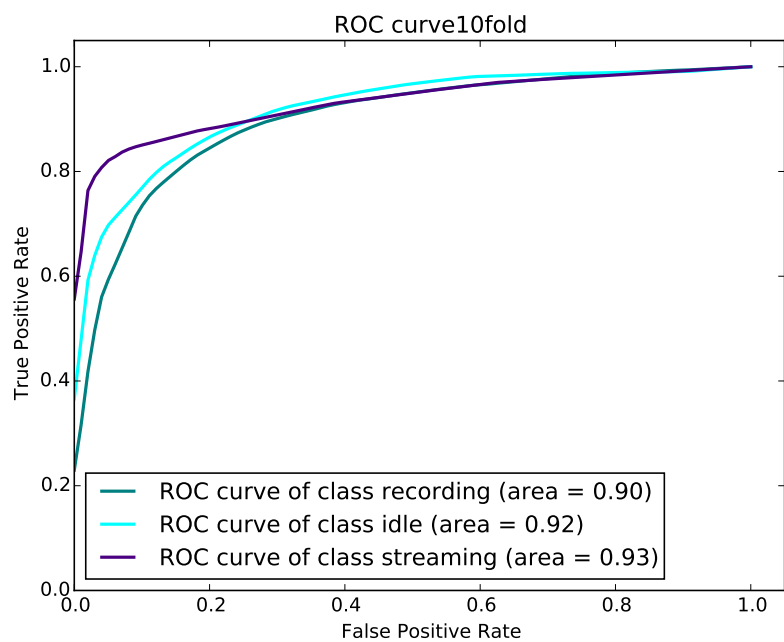


Figure 4: ROC curve for classification between activities using Random Forest classifier