Concert Video

Summary

This video was recorded during a music concert. This video is of particular interest since camera equipped mobile devices are perfectly suited to capture such personal moments. The captured video exhibits a variety of video effects. Some portions are captured using landscape mode, while others are recorded in portrait mode. At times the device is facing the ground, yet the video is still in focus and could be interpreted as interesting without information as to the context of the recording. Due to extreme motion and the dynamic nature of the event being recorded, more than a few frames are out-of-focus.

Final Cuts

Below are example frames of frames from each final cut examined in the paper, along with our manually edited cut. The "desirableness" of each frame is represented by the background color of the frame. A green background indicates a good frame, while a red red frame indicates a bad frame. The captions under each frame denote the timestamp of the extracted frame.

Quality Measures and Durations

Final Cut	Accuracy (φ)	Duration (s)
Accelerometer	0.84	105.1
Orientation	0.83	107.5
Focus	0.77	80.2
Accelerometer and Focus	0.87	59.4
Accelerometer, Orientation, and Focus	0.92	68.7

Manually Edited

00:00:05

00:00:25

00:00:31

00:00:49

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00:02:19

00:02:52

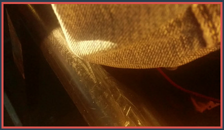
00:02:56

00:03:17

00:03:21

Accelerometer

00:00:05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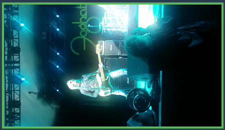
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Orientation

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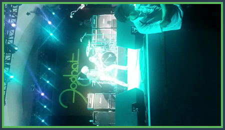
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Focus

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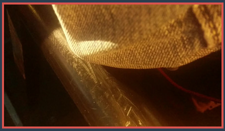
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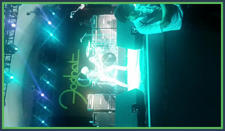
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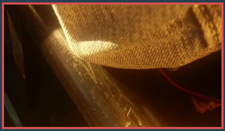
Accelerometer and Focus

00:00:05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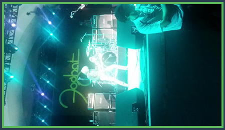
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Accelerometer, Orientation, and Focus

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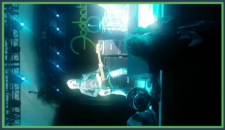
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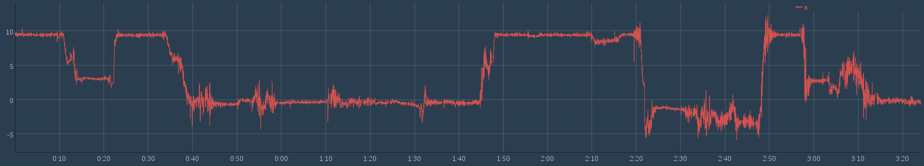
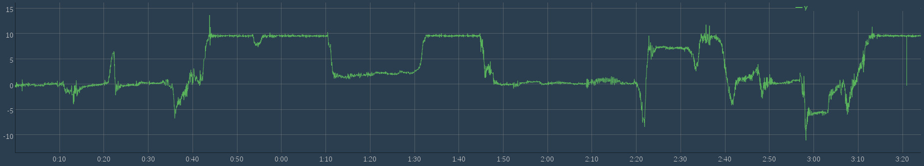
Data Plots

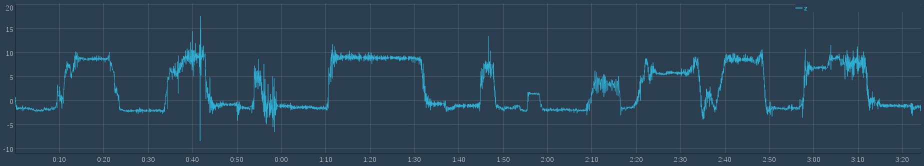
Accelerometer X Data



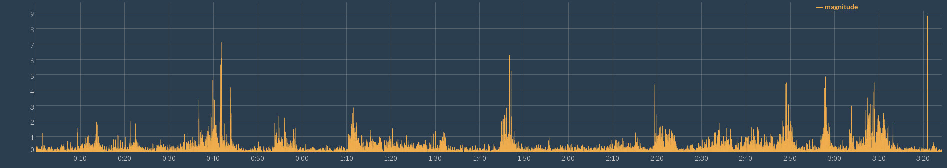
Accelerometer Y Data



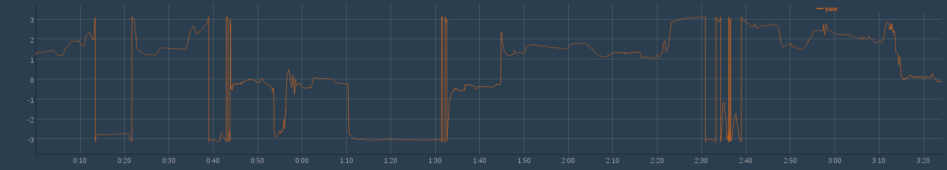
Accelerometer Z Data



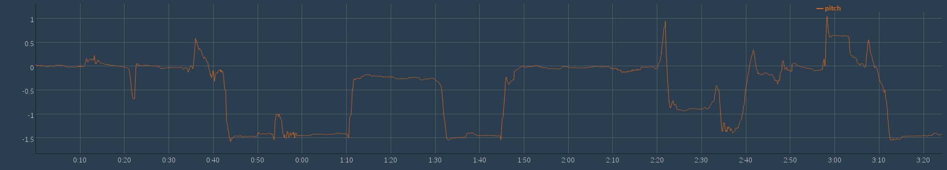
Accelerometer Mag Data



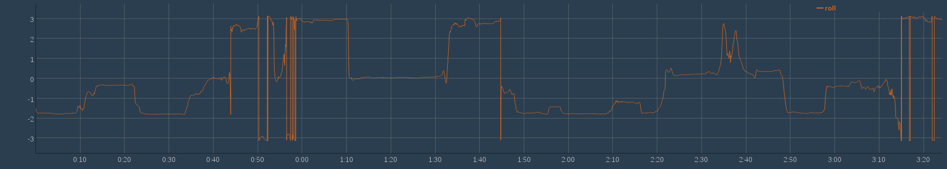
Rotation Yaw Data



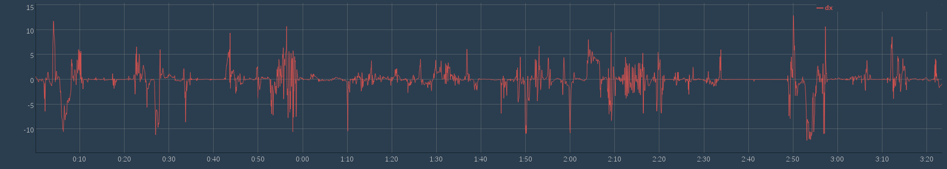
Rotation Pitch Data



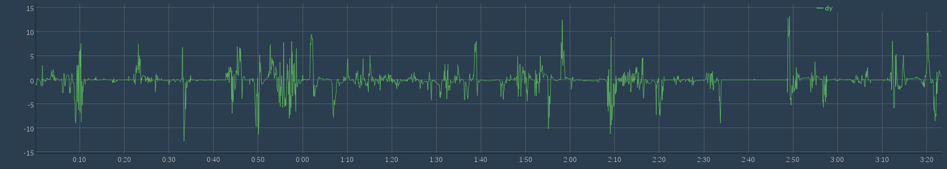
Rotation Roll Data



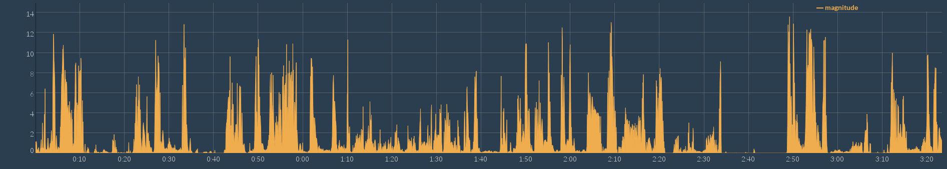
Optical Flow X Data



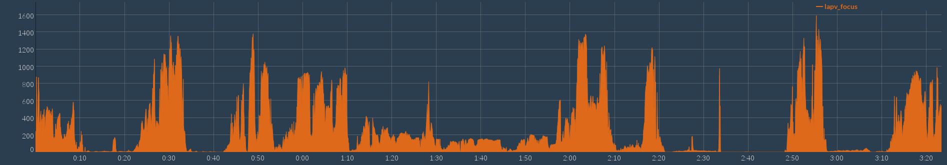
Optical Flow Y Data



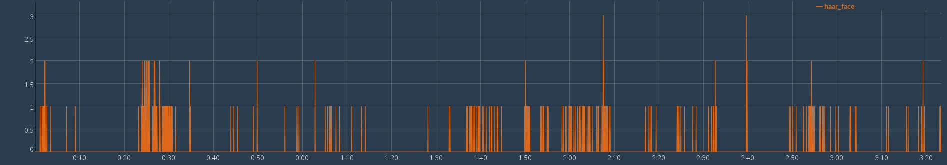
Optical Flow Magnitude

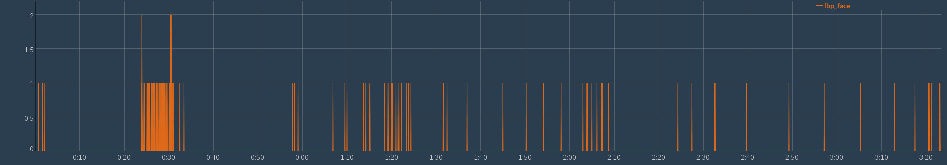


Focus Data (LAPV)



Face Counts (HAAR)



Face Counts (LBP)