Ferris Wheel Video

Summary

This video is recorded using our Android app while sitting on a Ferris wheel. Various views of the fairgrounds are seen in the video over the duration of the ride. A selection of frames from this video can be seen in the below section. Some frames are over-exposed, while others capture moments when the mobile device was not oriented correctly to capture any meaningful video.

Final Cuts

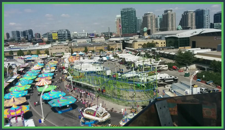
Below are example frames of frames from each final cut examined in the paper, along with our manually edited cut. The "desirableness" of each frame is represented by the background color of the frame. A green background indicates a good frame, while a red red frame indicates a bad frame. The captions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

Quality Measures and Durations

Final Cut	Accuracy (φ)	Duration (s)
Optical Flow	0.91	150.6
Focus	0.96	142.2
Accelerometer and Orientation	0.96	141.6
Accelerometer, Orientation, and Focus	0.99	134.6

Manually Edited

00:00:03


00:00:08

00:00:12

00:00:34

00:00:44

00:00:56

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00:01:20

00:01:47

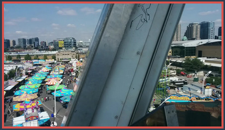
00:02:05

00:02:20

00:02:40

Optical Flow

00:00:02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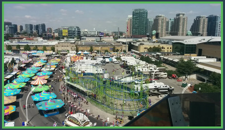
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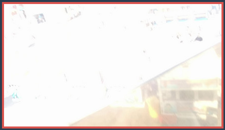
CAUTION!
DO NOT SIT
ON STEP
00:00:26

00:00:44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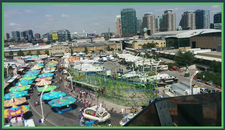
Focus



CAUTION!
DO NOT SIT
ON STEP

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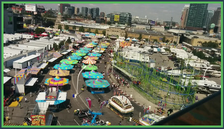

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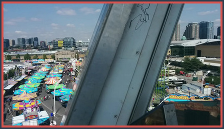
Accelerometer and Orientation

00:00:02



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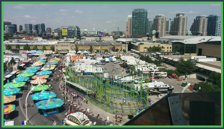

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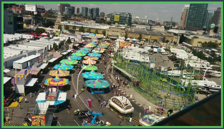

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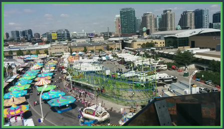
Accelerometer, Orientation, and Focus

00:00:03



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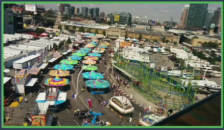

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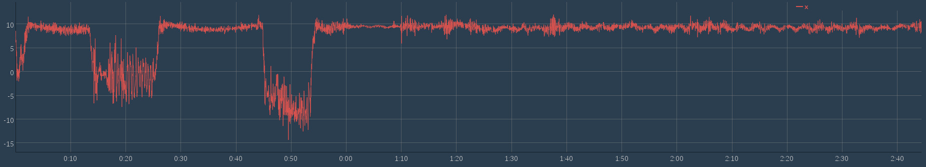
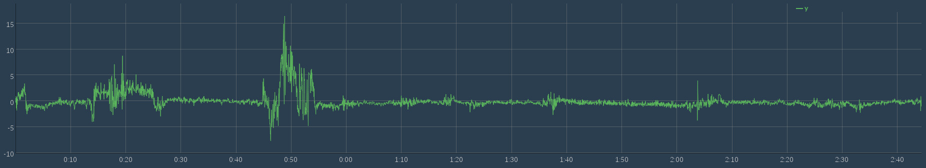
Data Plots

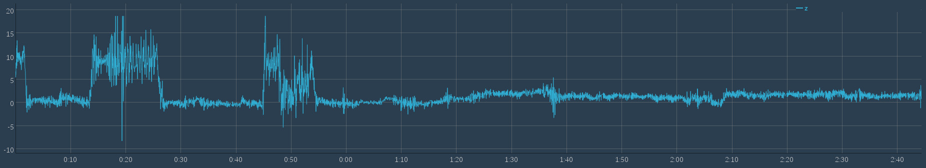
Accelerometer X Data



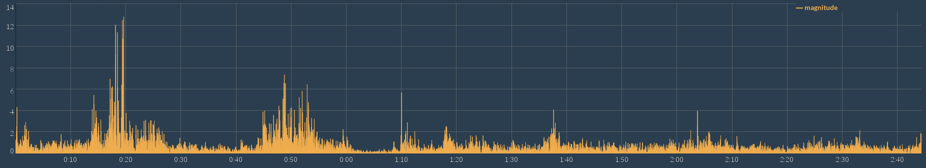
Accelerometer Y Data



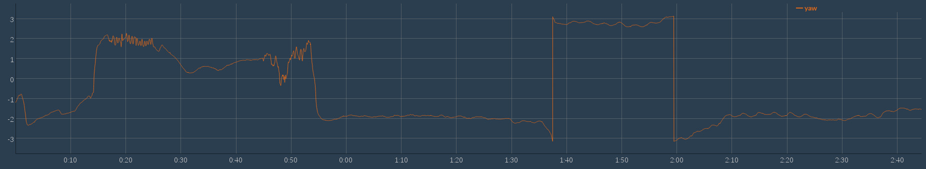
Accelerometer Z Data



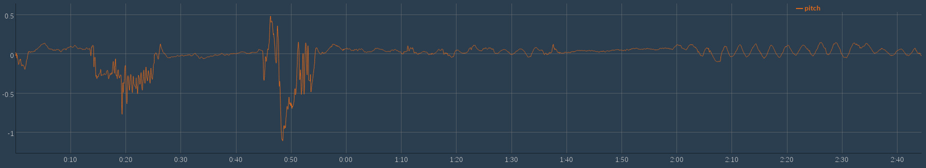
Accelerometer Mag Data



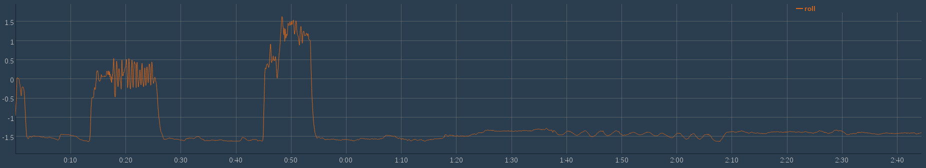
Rotation Yaw Data



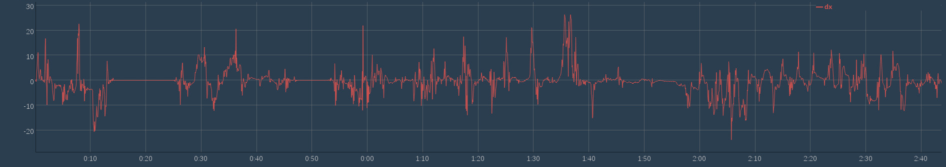
Rotation Pitch Data



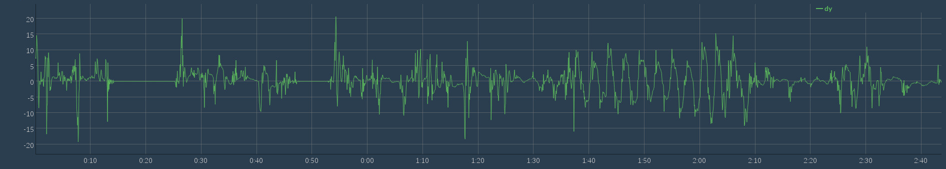
Rotation Roll Data



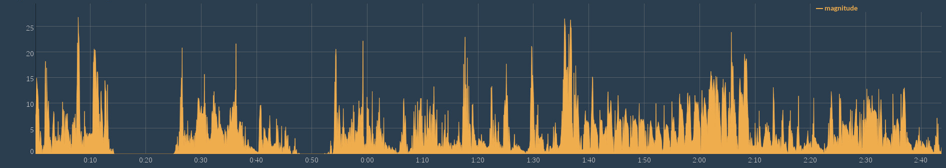
Optical Flow X Data



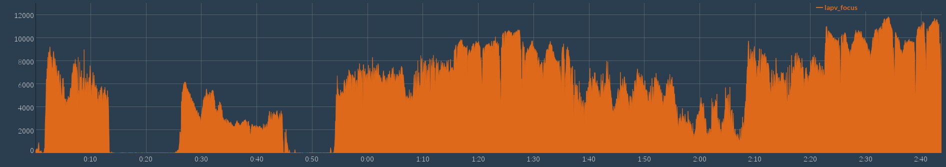
Optical Flow Y Data



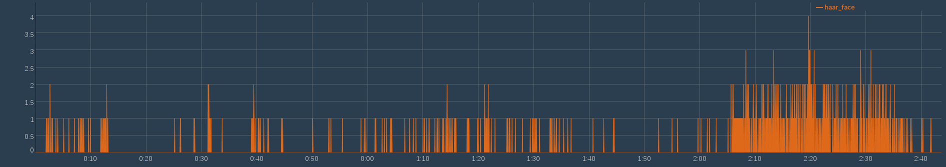
Optical Flow Magnitude

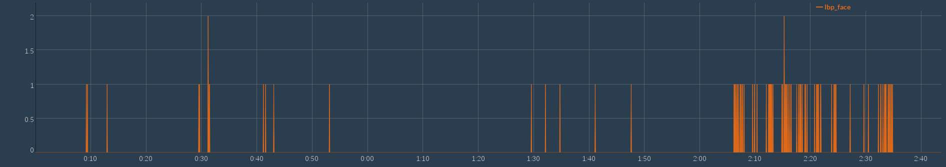


Focus Data (LAPV)



Face Counts (HAAR)



Face Counts (LBP)