Traffic Analysis System

Progress Report: 11/05/2021

RTSP Downloader

ffmpeg -rtsp_transport tcp

-i "rtsp://url:port/chID=1&streamtype=main"

-vcodec copy -an -map 0 -f segment -segment_time 180

-reset_timestamps 1 -segment_atclocktime 1 -strftime 1

-timeout 1 -stimeout 1000000 'cctv#-%s.ts'

CCTV	Disk usage (06:00-20:00)
35	19 GB (1.36 GB/hour) (32.64 GB/day)

Size: 1920x1080 @12 fps

filename	start_ts	total sec (ffprobe)	total frames	sec/frame	stop_ts
1620514804.ts	1620514804	177.8853	2136	0.0833	1620514981.8853
1620514980.ts	1620514980	179.9698	2109	0.0853	1620515159.9698
1620515160.ts	1620515160	179.9952	2160	0.0833	1620515339.9952
1620515340.ts	1620515340	180.0129	2160	0.0833	1620515520.0129

From	То
1620514804	1620514981.8853
1620514980	1620515159.9698
1620515160	1620515339.9952
1620515340	1620515520.0129

Problem with Source RTSP

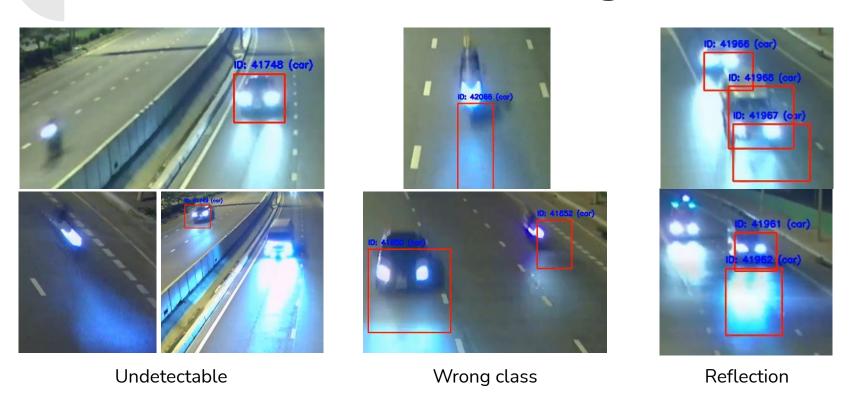


Freeze: 06:03:55-06:03:57



Freeze: 19:54:22-19:54:26

Detection Performance at night

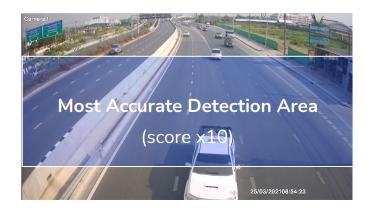


Best class - Accurate Class Identification



Table: track

Frame	Class	Score	Pos (Y)
608	2	0.51	153
609	2	0.50	160
610	7	0.91	368
611	7	0.91	373
612	7	0.70	385
642	7	0.92	974
U7Z	<i>'</i>	0.02	37 7
643	7	0.92	997



All possible classes



Class	Total Score
2 (car)	1.01
7 (truck)	280.76

TODO: Timestamp Epoch to DateTime

(Epoch) 1620515160 => (DateTime) YYYYMMDDHHMMSS

- Easy for manual processing