Drone Dataset

Format is based on the InD Dataset (https://levelxdata.com/wp-content/uploads/2023/10/inD-Format.pdf)

Recording Meta Information <videoID>_recordingMeta.csv

Name	Description	Unit
recordingId	Recording name	-
frameRate	Recording frame rate	fps
referenceFrame	Frame id used to label lane segments. The reference frame is saved as <videoid>_background.jpg</videoid>	-
weekday	value set to 0	
startTime	value set to 0	
duration	value set to 0	
numTracks	value set to 0	
numVehicles	value set to 0	
numVRUs	value set to 0	
latLocation	value set to 0	
IonLocation	value set to 0	
xUtmOrigin	value set to 0	
yUtmOrigin	value set to 0	
orthoPxToMeter	value set to 0	
px2meter	Scale factor to convert pixel units to meter	m/pixel
p1x, p1y, p2x, p2y, p3x, p3y, p4x, p4y	xy-coordinates of the labelled landmark in the referenceFrame	pixel

Track Meta Information < videoID>_tracksMeta.csv

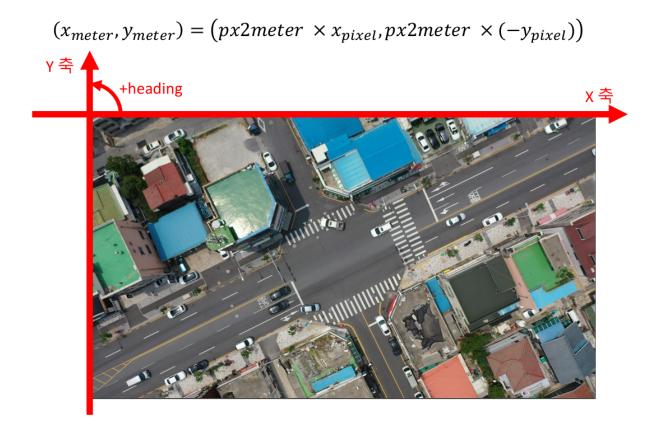
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Name	Description	Unit
recordingId	Recording name	-
trackld	ld of tracked object	-
initialFrame	The frame when tracked object first appear	-
finalFrame	The final frame the tracked object is seen	-
numFrames	Number of frames the tracked object is seen	frame
width*	Width dimension of bounding box	m
length*	Length dimension of bounding box	m
class	Class of the tracked object. Available classes are car, parked_car, bicycle and pedestrian	-

^{*}Only car and parked_car classes have size information.

Tracked Objects Information < videoID > _tracks.csv

Coordinate information



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Name	Description	Unit
recordingId	Recording name	-
trackId	ld of tracked object	-
frame	Frame at which labeling is performed	-
trackLifetime	Number of frames from when object was first seen to current frame. (0 for parked_car)	frame
xCenter	x-coordinate for the center of the object	m
yCenter	y-coordinate for the center of the object	m
heading	Heading of the object	deg
width*	Width dimension of bounding box	m
length*	Length dimension of bounding box	m
xVelocity	x component of the object velocity	m/s
yVelocity	y component of the object velocity	m/s

$$if\ class(trackId_i) == parked\ car$$

$$xVelocity_i = 0$$

$$else$$

$$if\ trackLif\ etime_i == 0$$

$$v_{next} = \frac{xCenter_{i+1} - xCenter_{i}}{0.1}$$

$$v_{prev} = v_{next}$$

$$elseif\ trackLif\ etime_{i+1} == 0$$

$$v_{prev} = \frac{xCenter_{i} - xCenter_{i-1}}{0.1}$$

$$v_{next} = v_{prev}$$

$$else$$

$$v_{prev} = \frac{xCenter_{i} - xCenter_{i-1}}{0.1}$$

$$v_{next} = \frac{xCenter_{i+1} - xCenter_{i}}{0.1}$$

$$xVelocity_i = \frac{v_{prev} + v_{next}}{2}$$

Map information < videoId>_mapSegmentation.csv

This file contain coordinate information, in pixel units, of the points that make up each lane segment polygon.

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