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Data From: Active Transportation Counts from Existing On-Street Signal and Detection Infrastructure

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SPR 857 Data

- This folder contains data and scripts associated with the SPR 857 research project.

Scripts

- assemble_data (R): Assembles master dataset by combining pedestrian counts from videos with pedestrian traffic signal data.
 - Input: funs (R), Signals (xlsx), missing (csv), videotimechecks (xlsx), sigdat (rds), [various count data from videos] (xlsm), SignalPhases (xlsx), intdat (rds), cntdat (rds), funPedRecall (R), sigs_data (rds), sigs_204127_data (rds)
 - Process: Initialize files. For each video folder, load video count data, load signal data, adjust timestamps, process and combine. Create master dataset for video locations. For each extra location, load count data, load signal data, process and combine. Create master data for extra locations. Combine to create master dataset. Inspect results. Add additional variables (signal factors, temporal factors, spatial factors). Save files.
 - Output: dat_raw (rds, csv), dat_combined (rds, csv)
- funs (R): Functions to process traffic signal controller log data.
- funPedRecall (R): Function to determine whether a phase during an hour was likely on pedestrian recall.
- results_final (R): Final models from the analysis, for Section 5.5 in report.
 - Input: dat_combined (rds)
 - Process: Load data. Estimate final models. Create k folds. Estimate models, save results. Estimate models, calculate error across quantiles, save results. Create figures.

sigs_data

- sigs_data (rds, csv): Combined information and data about Oregon traffic signals.
- sigs_data DD (docx): Data dictionary for sigs_data (rds, csv) files.
- sigs_204127_data (rds, csv): Same as sigs_data, for a signal (204127) that was not in the original list.

counts_video

- Signals (xlsx): List of videos of pedestrian counts, with information about location, time, and phase numbers.
- missing (csv): Times to remove video count data due to missing video or errors.
- videotimechecks (xlsx): Data about adjusting video timestamps to match signal timestamps.
- Data-Collection-Instructions (pdf): Presentation with instructions for conducting the data collection.
- 100440 - Ellsworth at 6th: Example data collection, at SW Ellsworth St and SW 6th Ave in Albany, OR.
 - 100440 - Ellsworth at 6th-Data Extraction Form - validated (xlsm): Example data collection sheet and extracted/validated count records.
 - 100440_Video (mp4): Example video at this location.

counts_extra

- cntdat (rds, csv): Extra ODOT pedestrian counts in Eastern Oregon.
- cntdat DD (docx): Data dictionary for cntdat (rds, csv) files.
- intdat (rds, csv): Information about each extra count.

- `intdatsig` (rds, csv): Same as `intdat`, with additional information about signal ID and location.
- `intdatsig` DD (docx): Data dictionary for `intdatsig` (rds, csv) files.
- `SignalPhases` (xlsx): List of extra ODOT pedestrian counts, with information about location, time, and phase numbers.

`sigdat`

- `sigdatdf` (rds, csv): Combined pedestrian traffic signal data from agencies.
- `sigdatdf` DD (docx): Data dictionary for `sigdatdf` (rds, csv) files.
- `sigdat` (rds): Same as `sigdatdf` (rds), except organized as a list of data frames by agency.

`dat_raw`

- `dat_raw` (rds, csv): Combined pedestrian count data from videos.
- `dat_raw` DD (docx): Data dictionary for `dat_raw` (rds, csv) files.

`dat_combined`

- `dat_combined` (rds, csv): Combined and aggregated pedestrian counts from videos and pedestrian traffic signal data.
- `dat_combined` DD (docx): Data dictionary for `dat_combined` (rds, csv) files.