Data on the case study of SR-522 corridor in Seattle, WA

Dataset available at: https://doi.org/10.7910/DVN/CX4VHN

(This dataset supports report **Hierarchical Priority-based Control of Signalized Intersections in Semi-Connected Corridors**)

This U.S. Department of Transportation-funded dataset is preserved by the Pacific Northwest Transportation Consortium (PacTrans) in the digital repository Harvard Dataverse (https://dataverse.harvard.edu), and is available at https://doi.org/10.7910/DVN/CX4VHN

The related final report **Hierarchical Priority-based Control of Signalized Intersections in Semi-Connected Corridors**, is available from the National Transportation Library's Digital Repository at https://rosap.ntl.bts.gov/view/dot/60064.

Metadata from the Harvard Dataverse Repository record:

Dataset Persistent ID: doi:10.7910/DVN/CX4VHN
Publication Date: 2021-05-14
Title: Data on the case study of SR-522 corridor in Seattle, WA
Author:

- Hajbabaie, Ali (Washington State University) - ORCID: 0000-0001-6757-1981

Description: The dataset includes the data for a section of the SR-522 corridor in Seattle, WA. Google Earth satellite and Google map of 10 intersection network in SR-522, Seattle, WA, Input Data for Intersections 1-10, Cell Transmission Model Representation of Case Study, average delays, speed, stop, and delayed stop for different penetration rates for demand profile 1,2,3, the performance of distributed coordinated approach, turning volume at the intersections are provided.
Subject: Engineering; Computer and Information Science; Mathematical Sciences
Keyword: Transportation Network, Signal Timing Optimization, Cloud, Fog
Notes: http://hdl.handle.net/1773/46934
Depositor: Yarbrough, Christina
Deposit Date: 2021-05-14

Recommended citation:

Hajbabaie, Ali, 2021, "Data on the case study of SR-522 corridor in Seattle, WA", https://doi.org/10.7910/DVN/CX4VHN, Harvard Dataverse, V1

Dataset description:

This dataset contains 1 file collection, described below.

Hierarchical Priority-based Control of Signalized Intersections in Semi-Connected Corridors_Data.zip

- Turning volume (veh per hour) at the intersections.xlsx
- Performance of distributed coordinated approach.xlsx
- Input Data for Intersection9.java
- Input Data for Intersection8.java

- Input Data for Intersection7.java
- Input Data for Intersection6.java
- Input Data for Intersection5.java
- Input Data for Intersection4.java
- Input Data for Intersection3.java
- Input Data for Intersection2.java
- Input Data for Intersection10.java
- Input Data for Intersection1.java
- Google map of 10 intersection network in SR-522, Seattle, WA .png
- Google Earth satellite map of the case study.png
- Characteristics of the network in SR-522, Seattle, WA.xlsx
- Cell Transmission Model Representation of Case Study.png
- Average delays, speed, stop, and delayed stop for different penetration rates for demand profile 1,2,3.xlsx

File Type Descriptions:

- The .xlsx and .xls file types are Microsoft Excel files, which can be opened with Excel, and other free available software, such as OpenRefine.
- The .java file type is associated with the Java programming language and run-time environment available for various platforms. The java file contains Java source code. These files are in plain text format. This means Java files can be edited in the Java IDE applications and also in standard text editors (for more information on .java files and software, please visit https://www.file-extensions.org/java-file-extension).
- File extension png is commonly used for images in Portable Network Graphics file format. PNG is a bitmap graphics format similar to GIF, that uses image compression mainly for web purposes (for more information on .png files and software, please visit https://www.file-extensions.org/png-file-extension).

National Transportation Library (NTL) Curation Note:
As this dataset is preserved in a repository outside U.S. DOT control, as allowed by the U.S. DOT's Public Access Plan (https://doi.org/10.21949/1503647) Section 7.4.2 Data, the NTL staff has performed ***NO*** additional curation actions on this dataset. NTL staff last accessed this dataset at https://doi.org/10.7910/DVN/CX4VHN on 2022-05-04 If, in the future, you have trouble accessing this dataset at the host repository, please email NTLDataCurator@dot.gov describing your problem. NTL staff will do its best to assist you at that time.