Connected-Vehicle Traffic Signal System Modeling -Covettware Project Dataset
Dataset available at: https://doi.org/10.7910/DVN/LLSTT1

(This dataset supports report **A Connected-Vehicle Traffic Signal System Modeling Platform**)

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/LLSTT1

The related final report **A Connected-Vehicle Traffic Signal System Modeling Platform**, is available from the National Transportation Library's Digital Repository at https://rosap.ntl.bts.gov/view/dot/61955.

Metadata from the Harvard Dataverse Repository record:
Dataset Persistent ID: doi:10.7910/DVN/LLSTT1
Publication Date: 2022-05-04
Title: Connected-Vehicle Traffic Signal System Modeling -Covettware Project
Author:
- Heckendorn, Robert (University of Idaho) - ORCID: 0000-0002-1319-0670

Description: The dataset is organized in three folders: The data folder with BSM, SPAT, and other data used in the Covettware modeling platform development and testing; the Doc folder with Covettware modeling platform documentations; and the Src folder which includes the Covettware modeling platform source code. (2020-05-31)
Subject: Engineering; Computer and Information Science
Keyword: Connected Vehicles, Traffic Simulation, BSM, SPAT, VISSIM
Related Publication: Heckendorn, Robert B., and Eapen, Neeta A. "Connected Vehicle Traffic control algorithm Testing Software (CoVeTTware) user manual." National Institute for Advanced Transportation Technology (NIATT), University of Idaho, Moscow, Idaho, U.S.A. (2021).
Notes: http://hdl.handle.net/1773/48586
Depositor: Yarbrough, Christina
Deposit Date: 2022-05-04

Recommended citation:
Heckendorn, Robert, 2022, "Connected-Vehicle Traffic Signal System Modeling -Covettware Project", https://doi.org/10.7910/DVN/LLSTT1, Harvard Dataverse, V1

Dataset description:
This dataset contains 1 file collection described below.

Connected-Vehicle Traffic Signal System Modeling_Data.zip
- ._connectedVehicles.out
- ._Data
- ._readme-1.txt

- ._register.png
- ._Src
- ._terminalOutput.txt
- BSM.txt
- connectedVehicles.out
- connectedVehicles.pdf
- connectedVehicles.spl
- connectedVehicles.tex
- covettware.png
- covettwareProject.jar
- main.txt
- merged.eps
- readme.txt
- register.png
- SPAT.txt
- terminalOutput.txt
- testInputGeneration.inpx
- testInputGeneration-1.inpx
- threeD_DG_GG_Compare.eps
- UI_logo_horizontal.png

File Type Descriptions:
- File extension .out is used by various applications for generic output file. Some applications, like integrated development environments, use or were using the .out file suffix for outlines or outputs file formats. Some java applications creates program logs or reports, system logs as .out file (for more information on .out files and software, please visit https://www.file-extensions.org/out-file-extension).
- The .txt file type is a common text file, which can be opened with a basic text editor. The most common software used to open .txt files are Microsoft Windows Notepad, Sublime Text, Atom, and TextEdit (for more information on .txt files and software, please visit https://www.file-extensions.org/txt-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).
- The .pdf file format is an Adobe Acrobat Portable Document Format (PDF) file and can be opened with the Adobe Acrobat software.
- The .spl file extension is related to print job file used in previous versions of Microsoft Windows operating system. An .spl file contains commands (for more information on .spl files and software, please visit https://www.file-extensions.org/spl-file-extension).
- The .tex file extension is most notably associated and used for TeX/LaTeX text document files. LaTeX is a document preparation system for high-quality typesetting. The .tex file is a plain text that contains markup conventions, which define document structure. It is most often used for medium-to-large technical or scientific documents but it can be used

for almost any form of publishing (for more information on .tex files, please visit https://www.file-extensions.org/tex-file-extension).

- The .jar file extension is mainly associated with Java and used for Java archives. The Java Archive (JAR) file format enables you to bundle multiple files into a single archive file (for more information on .jar files and software, please visit https://www.file-extensions.org/jar-file-extension).
- The .esp file extension is associated with the Eclipse, an integrated development environment that allows users to create applications for Windows, Linux, Mac, JAVA, Android and other platforms (for more information on .esp files and software, please visit https://www.file-extensions.org/esp-file-extension).
- The .inpx file extension is associated with the PTV Vissim, a software for Microsoft Windows that allows users to simulating and controlling daily road traffic. The .inpx file stores various data used for internal purposes of the PTV Vissim (for more information on .inpx files and software, please visit https://www.file-extensions.org/inpx-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/LLSTT1 on 2022-05-26 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.