

# Vehicle-Traffic Control with Limited-Capacity Connected/Automated Vehicles Dataset

Dataset available at: <https://doi.org/10.5281/zenodo.4527313>

(This dataset supports report **Vehicle-Traffic Control with Limited-Capacity Connected/Automated Vehicles**)

This U.S. Department of Transportation-funded dataset is preserved in the Zenodo Repository (<https://zenodo.org/>), and is available at <https://doi.org/10.5281/zenodo.4527313>

The related final report **Vehicle-Traffic Control with Limited-Capacity Connected/Automated Vehicles**, is available from the National Transportation Library's Digital Repository at <https://rosap.ntl.bts.gov/view/dot/59159>.

## Metadata from the Zenodo Repository record:

Title: Vehicle-Traffic Control with Limited-Capacity Connected/Automated Vehicles

Author: Xuegang (Jeff) Ban; Qiangqiang Guo; Ohay Angah; Zhijun Liu

Description: The uploaded set of codes is for testing a vehicle-signal control algorithm that integrates an eco-driving vehicle control algorithm and a dynamic signal control algorithm. The implementation of the vehicle control includes both single control (only a CAV is controlled in the simulation system) and multiple control (control the newly-arrived CAVs based on the determined penetration).

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Keywords: Vehicle control, Signal control, Vehicle in the loop, Eco-driving

Communities: C2SMART Connected Cities with Smart Transportation

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## Recommended citation:

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## Dataset description:

This dataset contains 3 file collections described below.

### baseline.zip:

This file collection contains 5,480 files, organized in multiple folders.

### multiControl.zip

This file collections contains 5,502 files organized in multiple folders.

### singControl.zip

This file collection contains 5,519 files organized in multiple folders.

**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://ntl.bts.gov/public-access>) 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/10.5281/zenodo.4527313> on 2022-05-11. If, in the future, you have trouble accessing this dataset at the host repository, please email [NTLDataCurator@dot.gov](mailto:NTLDataCurator@dot.gov) describing your problem. NTL staff will do its best to assist you at that time.