# Actuated Taxi location data Dataset
**Dataset available at:** http://doi.org/10.5281/zenodo.3593986

(This dataset supports report **Actuation System For City-Wide Sensing and Ride Distribution Using Managed Vehicular Fleets**)

This U.S. Department of Transportation-funded dataset is preserved by the California Department of Transportation in the digital repository Zenodo (https://zenodo.org/), and is available at http://doi.org/10.5281/zenodo.3593986

The related final report **Actuation System For City-Wide Sensing and Ride Distribution Using Managed Vehicular Fleets**, is available from the National Transportation Library's Digital Repository at https://rosap.ntl.bts.gov/view/dot/53885.

**Metadata from the Dryad Repository record:**
Abstract: This is a dataset of location data used for actuated taxi data related to paper:
Chen, X., Xu, S., Fu, H., Joe-Wong, C., Zhang, L., Noh, H. Y., & Zhang, P. (2019, April). ASC: actuation system for city-wide crowdsensing with ride-sharing vehicular platform. In Proceedings of the Fourth Workshop on International Science of Smart City Operations and Platforms Engineering (pp. 19-24). ACM.
Publication date: December 27, 2019
License (for files): Creative Commons Attribution 4.0 International
Versions: Version 1

**Recommended citation:**
Pei Zhang, Xinlei Chen, Hae Young Noh, & Carlee Joe-Wong. (2019). Actuated Taxi location data. [Data set]. Zenodo. http://doi.org/10.5281/zenodo.3593986

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

**exp_data.zip:**
This collection contains 3 folders and 1 .docx file listed below:
- __MACOSX, which contains duplicate folders and files for "left_data" and "right_data."
- left_data, which contains 93 .csv files. The files are named "traceXXX.csv" with XXX representing a number between 1 and 105.
- right_data, which contains 73 .csv files. The files are named "traceXX.csv" with XX representing a number between 1 and 96.
- experiment readme.docx.

The .docx file is a Microsoft Word file, which can be opened with Word and other free word processor programs, such as Kingsoft Writer, OpenOffice Writer, and ONLYOFFICE, and the .csv, Comma Separated Value, file is a simple format that is designed for a database table and supported by many applications. The .csv file is often used for moving tabular data between two different computer programs, due to its open format. The most common software used to open

.csv files are Microsoft Excel and RecordEditor, (for more information on .csv files and software, please visit https://www.file-extensions.org/csv-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 http://doi.org/10.5281/zenodo.3593986 on 2020-12-07.

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.