

Monitoring of Urban Roadway Safety Hazards from Existing Bus-based Video Imagery

Data Management Plan

DATA DESCRIPTION

This project will use data from multiple sources, including data collected from transit vehicles equipped with cameras, GPS sensors, and other motion sensors; road tube vehicle count and speed data; and manually collected vehicle count, queuing, and possibly speed data. Some of these data may have been collected in previous research activities, and other data will be obtained within the scope of this project. Some data will be collected by the research team, and some will be provided by collaborators and third parties, including The Ohio State University (OSU) Department of Traffic and Transportation Management, who owns and operates the Campus Area Bus Service (CABS), and the Mid-Ohio Regional Planning Commission, which is the MPO for the Central Ohio region.

Data related products will be used in journal and conference level research papers and presentations. These products will be partly derived from manual or automatic image processing efforts and software codes written in commonly available languages.

DATA FORMAT AND STANDARDS

Numerical data will be stored in standard open file formats such as Matlab, Excel, CSV, and plain text.

POLICIES FOR ACCESS AND SHARING

Algorithms developed under the project and research results will be disseminated in scientific publications and presentations, as well as in final reports that will be available on the Mobility21 and possibly other websites. The PIs and OSU Technology Commercialization Office will make an evaluation regarding invention disclosure, patentability, and other intellectual property issues that may require protecting or limiting access to software and source codes. Otherwise, those materials will be available on request after considering the purpose of use.

The supplier and owner of the video imagery used for this project does not permit their being made publicly available without prior approval based on specific requests where the purpose and manner of use are considered in determining whether to grant permission or not. Other publicly available datasets used will be cited and documented. It is not expected that any data used or collected as part of this project to fall under ITAR or other Export Control regulations. None of the data used in this project will contain personally identifiable information.

We will comply with The OSU Research Data Policy.

POLICIES FOR RE-USE, RE-DISTRIBUTION, DERIVATIVES

The Ohio State University holds the IP and copyright for data and other materials created by this project. The policies for access and sharing noted above apply to the re-use and re-distribution of the data.

Regarding the methods, results, and findings stemming from the analyses conducted using the data, referred to as the "work", the US DOT reserves a royalty-free, nonexclusive and irrevocable license to reproduce, publish, or otherwise use and to authorize others to use the work for government purposes.

PLANS FOR ARCHIVING AND PRESERVATION

Data will be stored on local, professionally managed servers with regular backup, as well as cloud-based services such as OneDrive. Digital and written data will be retained by OSU for a minimum of 5 years following the end of the project, as per the OSU Research Data Plan. Analysis related intermediate results that could be easily recreated may not be considered for long-term storage and preservation.