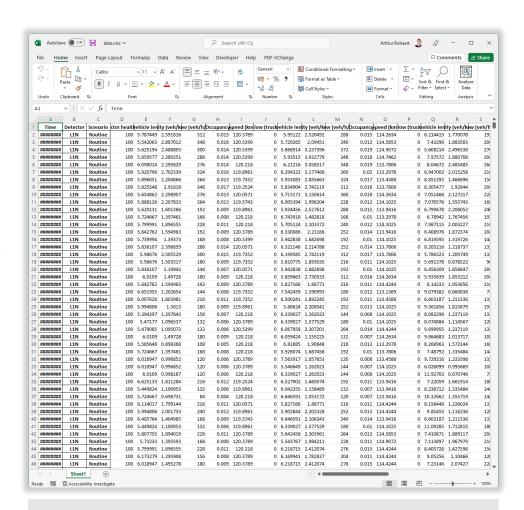


TDA extracts data from the PeMS database (Caltrans) and delivers datasheets.

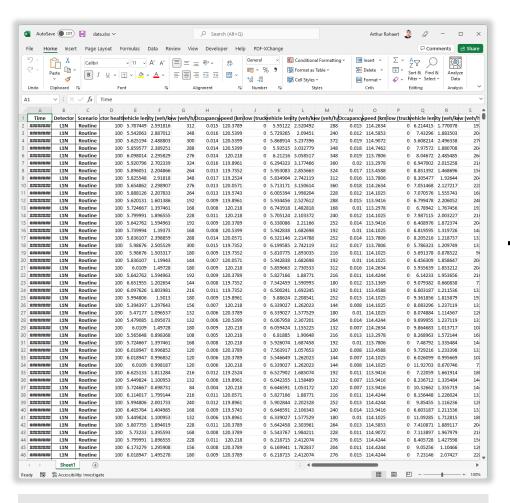


The interface of the PeMS database

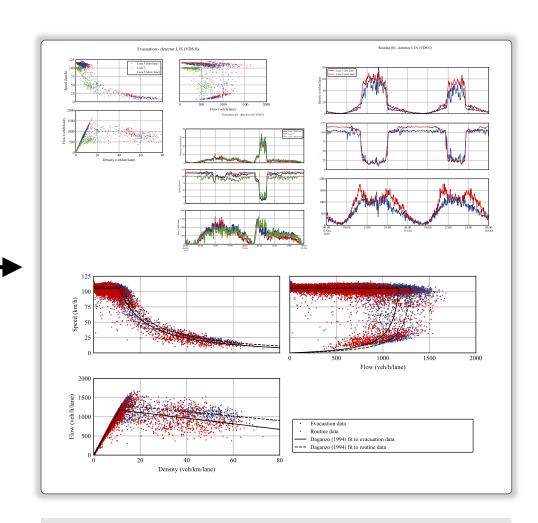


The generated datasheet

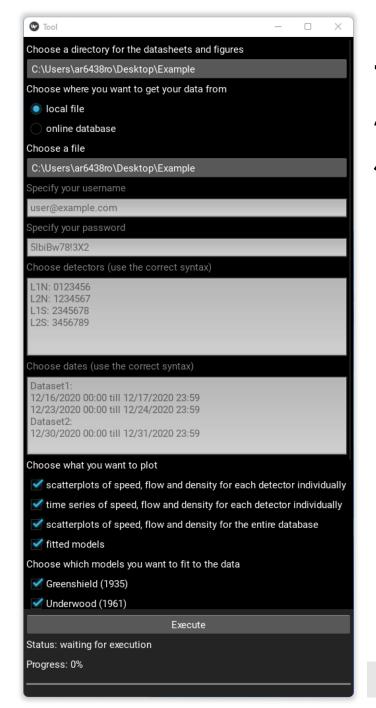
TDA also fits the data to established traffic dynamics models and creates graphs of the data and the models.

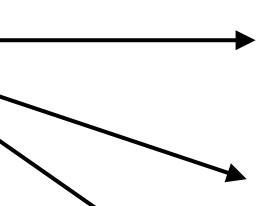


The generated datasheet



The graphs of density, speed and flow.





Select a folder in which you want to save all the generated data

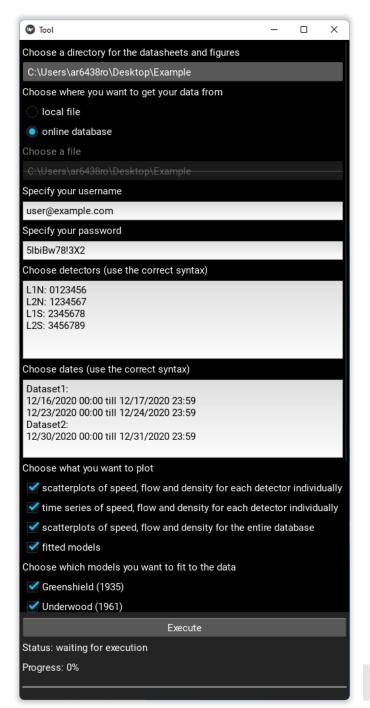
- ▲ The tool will overwrite existing files in this folder.
- An error will occur when one of those files is already opened somewhere else on the computer.

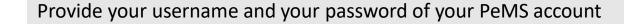
Choose where you want to obtain the data from. Either from a datasheet that is stored on the computer or directly from the PeMS database (online). Once you have downloaded the data for the first time, a datasheet will be saved in the chosen directory. The next time you want to generate figures for the same data, you can select this sheet.

Select the local file.

▲ Only datasheets with the correct structure and same format can be uploaded.

The graphical user interface of the TDA tool





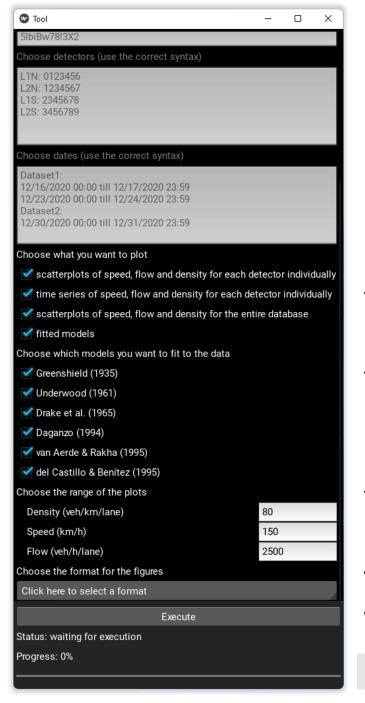
Specify for which detectors you want to obtain data. Use the correct syntax.

- ▲ Choose a unique name for all detectors (a combination of letters and numbers).
- ▲ Separate this name from the id (VDS) with a colon.
- ▲ Write the details for the next detector on a new line.

Specify for which dates you want to obtain data. Use the correct syntax.

- ▲ <u>Choose a unique name</u> for a label (routine, evacuation, hurricane, mist, ...), followed by a <u>colon</u>.
- Write the considered <u>dates</u> for this label on the following lines. Use the same format as provided by default: "mm/dd/yyyy hh:mm till mm/dd/yyyy hh:mm"
- ▲ Separate different periods by line.

The graphical user interface of the TDA tool



Select the plots you wish to generate

Select the models you want to fit to the obtained data.

Select the maximum values of the density, speed and flow that will be displayed in the figures.

- ▲ Provide only numbers, use a decimal point if necessary.
- A Avoid letters, spaces, commas and other signs.

Select one of the suggested formats for the figures

Execute! An error will occur if:

- ▲ the username and or password are wrong
- ▲ the detectors or dates are not listed correctly
- ▲ the input file has an incorrect format or structure.

The graphical user interface of the TDA tool