Point clouds of Tram bridge in Schipluiden, Zuid-Holland, The Netherlands

**Short description**:

Point clouds of Tram bridge in Schipluiden, Zuid-Holland was acquired for the project “Laser Scanning for Automatic Bridge Assessment” or called “BridgeScan” funded through H2020 Marie Curie IF and for a big assignment of a course “3D Surveying of Civil and Offshore Infrastructure” of a Master program at TU Delft Dept. Geoscience and Remote sensing”. The Tram bridge is a truss steel bridge, which was for a tram to transport vegetables. Now it is used for light traffic (mainly pedestrian, bike and motorbike). The data points of the bridge were acquired using Leica ScanStation P40, from 14 stations with the sampling step 6.3mm at the measure range of 10.0m. The point clouds from different scanning stations were registered using the artificial targets through Leica Cylone software. The point cloud of the bridge was used to reconstruct a 3D model and identify surface damage. The data set was cleaned irrelevant points and down-sampled with the sampling step of 5mm.

**Purpose of data set**:

The point cloud of the bridge was used to reconstruct a 3D model and identify surface damage.

**Equipment and software**

Leica ScanStation P40

Leica Cyclone, CloudCompare

**Description of data**

The data set consists of point clouds of a bridge. The point clouds include x-, y- and z- coordinates and intensity value of each points. The data was stored in .E57 format (<https://www.ri.cmu.edu/pub_files/2011/1/2011-huber-e57-v3.pdf>).

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