Spatial Data used to Design Accessible Seating Areas on Passenger Rail Cars Dataset

Dataset available at: https://doi.org/10.7910/DVN/SMQU1D

(This dataset supports report **Spatial Analysis of Accessible Seating Area on the Next Generation Passenger Rail Cars using 3-D Modeling and Digital Human Modeling**)

This U.S. Department of Transportation-funded dataset is preserved by the Pacific Northwest Transportation Consortium (PacTrans) is the Regional University Transportation Center (UTC) for Federal Region 10 in the digital repository Harvard Dataverse (https://dataverse.harvard.edu), and is available at https://doi.org/10.7910/DVN/SMQU1D.

The related final report **Spatial Analysis of Accessible Seating Area on the Next Generation Passenger Rail Cars using 3-D Modeling and Digital Human Modeling**, is available from the National Transportation Library's Digital Repository at https://rosap.ntl.bts.gov/view/dot/55929.

Metadata from the Harvard Dataverse Repository record:

Description:

Data is designed to be used in Solid works or other common digital human modeling software systems. Data is used to model spatial consumption in determination of accessible seating area designs for passenger rail cars (2019-07-16)

Subjects:

Engineering; Medicine, Health and Life Sciences

Keyword:

Spatial Consumption, Accessibility, Passenger Rail

Related Publication

Spatial Analysis Of Accessible Seating Area On The Next Generation Passenger Rail Cars Using 3-D Modeling And Digital Human Modeling. Final Project Report.

Recommended citation:

Hunter-Zaworski, Katharine, 2019, "Spatial Data used to Design Accessible Seating Areas on Passenger Rail Cars", https://doi.org/10.7910/DVN/SMQU1D, Harvard Dataverse, V1

Dataset description:

This dataset contains 1 .zip file collection described below.

Ultra-high-accuracy Digital Terrain Model Mapping Data.zip:

This collection contains 13 files and 3 files types, listed below.

- Tolmport_Smaller.prt
- Sport Chair Assembly.pss

- SingleLevel_SeatingRoom_DaytimeConfrig.prt
- Shower_chair_step.prt
- SeatingRomm_FrontBerthsDown.prt
- SeatingRoom_DaytimeConfig.prt
- Power Chair – withTurnCircle60 – 180 degree turn and Lav Space_sldasm.prt
- LayoutWithRestroom_2DSeats.prt
- LayoutWithRestroom.prt
- DoorwayToRestroom.prt
- Chair01.fig
- 33in_02-22-18_02.prt
- 04_05_18_01.prt

File Type Descriptions:

- The prt file extension is frequently used by various CAD software for files that contains 3D about certain part or component. In the MCAD world geometry is contained in individual "part files" that use such common extensions as part, prt and sldprt. Some of these format are interchangeable, while others are proprietary and cannot be used outside the original application. (for more information on .prt files and software, please visit https://www.file-extensions.org/prt-file-extension)
- The pss file extension is associated with Adobe Type Manager, a system software component that automatically generates high-quality screen font bitmaps from the PostScript outlines in Type 1 or OpenType format. (for more information on .pss files and software, please visit https://www.file-extensions.org/pss-file-extension)
- The fig file extension is also used for figures in Cabri 3D, a geometry math software for Microsoft Windows that is also used as an interactive education program for teaching geometry. The fig file contains figure data. (for more information on .fig files and software, please visit https://www.file-extensions.org/fig-file-extension-cabri-figure-data)

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 https://doi.org/10.7910/DVN/SMQU1D on 2021-07-2021

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.