



Accelerated Learning through Practical Experience with NTL

By Peyton Tvrdy




The Beginning: Learning about Federal Libraries

- Career Fair meeting in March 2022 with Mary Moulton
- Discussion of career and contract vs. government employee
- Meeting to Establish Goals:
 - Develop skills in cataloging
 - Learn new skills with metadata and data cleanup
 - Understand Federal Library/ Research Lifecycle
- Currently working with:
 - Leighton Christiansen with cataloging and learning
 - Jesse Long with PDFs and OCR software



Cataloging is an Artform

- Manual cataloging takes time
- Double-checking as necessary as monitor space
- Making good judgement calls come with practice
- Reviewers are essential to quality work
- 20 records created manually can be hard work, 70 more even harder

Title	Radar and LIDAR Fusion for Scaled Vehicle Sensing [supporting dataset](88055)
Record ID	88055
DOI/EDL	https://doi.org/10.15787/VTT1/BQJRFN
Personal Name Creator	Beale, Gregory T {69705}; Berkemeier, Matthew D {69706}; Doerzaph, Zachary R {30907}; Perez, Miguel A {69707}
Corporate Creator	Safety through Disruption (Safe-D) University Transportation Center (UTC) {55688}
Corporate Contributor	United States, Department of Transportation, University Transportation Centers (UTC) Program {21621}; United States, Depa
Publisher	Safety through Disruption (Safe-D) University Transportation Center (UTC) {3569} 
Publication Date	Mar 30, 2022
Language	English
Abstract	Scaled test beds are popular tools to develop and physically test algorithms for advanced driving systems, but they often lack automotive-grade LIDAR sensor fusion approach that effectively leveraged the higher spatial resolution of LIDAR was proposed as a popular data association technique. Second, a 1/5th scaled vehicle performed the same vehicle maneuvers but scaled to app average than in the full-scale trials. Third, LIDAR object tracks were generated for the small-scale trials using a second EKF in positional accuracy for a majority of the small-scale trials when compared to tracks using just the radar or just the LIDAR. The radar output with LIDAR, overcoming the resolution issues that afflict radar when operating at small scale. The total size of the images and can be opened with any PDF reader or editor. Files that end in .bag are uncompressed data files. These files can
Public 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://datasetdocumentation) is the responsibility of the dataset creator. NTL staff last accessed this dataset at https://dataverse.vti repository, please email NTLDataCurator@dot.gov describing your problem. NTL staff will do its best to assist you at that time
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Toolbars: Keyboard Shortcuts

Toolbar:

- Separator
- Merge Table Cells
- Separator

Reset Reset All

OK Cancel Help

TRUCK INVENTORY AND USE SURVEY TENNESSEE

TABLE 7. Annual Truck Miles and Size Class and Year Mo of Truck: 1963

(Percent distribution)

Size class and year model	Total	Less than 5,000 miles	5,000 to 9,999 miles	10,000 to 19,999 miles	20,000 to 29,999 miles	30,000 miles or more
Distribution by truck miles						
All trucks.....	100.0	21.9	21.9	18.7	7.0	7.9
Light trucks, total.....	100.0	21.4	24.8	18.8	5.8	2.4
1962-63 models.....	100.0	5.7	25.4	30.8	16.0	5.3
1960-61 models.....	100.0	10.3	15.3	25.9	23.0	4.2
1955-59 models.....	100.0	17.8	25.6	24.5	2.4	2.9
Pre-1955 models.....	100.0	20.1	25.3	11.3	1.7	0.9
Medium trucks, total.....	100.0	23.4	19.0	21.9	9.6	8.6
1962-63 models.....	100.0	7.2	6.3	31.1	25.0	17.9
1960-61 models.....	100.0	-	-	61.9	15.0	21.9
1955-59 models.....	100.0	12.6	42.4	14.3	14.7	14.9
Pre-1955 models.....	100.0	38.3	16.4	13.6	1.5	-
Light-heavy trucks, total.....	100.0	33.2	14.6	18.8	10.2	11
1962-63 models.....	100.0	1.0	8.7	21.4	22.3	3.7
1960-61 models.....	100.0	30.8	5.5	51.6	24.1	19
1955-59 models.....	100.0	22.4	14.9	56.3	11.6	8
Pre-1955 models.....	100.0	32.9	18.7	9.0	10.7	4
Heavy-heavy trucks, total.....	100.0	9.1	11.5	13.9	9.0	45
1962-63 models.....	100.0	2.1	4.3	16.4	8.6	60
1960-61 models.....	100.0	7.5	4.9	38.7	11.3	39
1955-59 models.....	100.0	12.3	10.6	14.1	11.9	46
Pre-1955 models.....	100.0	28.8	22.2	9.9	4.7	17
Distribution by size class and year model						
All trucks.....	100.0	100.0	100.0	100.0	100.0	100
Light trucks, total.....	69.2	67.8	78.5	69.6	57.5	21
1962-63 models.....	8.9	1.5	10.4	14.7	20.5	6
1960-61 models.....	7.0	3.5	4.9	9.7	25.2	3
1955-59 models.....	18.3	14.9	21.3	23.9	6.2	6
Pre-1955 models.....	35.0	48.1	41.7	21.3	7.8	4
Medium trucks, total.....	10.7	11.5	9.3	12.5	14.7	11
1962-63 models.....	1.8	0.5	0.5	2.6	3.7	3
1960-61 models.....	1.3	-	-	4.0	2.6	3
1955-59 models.....	11.4	11.4	9.7	7.9	10.0	4
Pre-1955 models.....	5.4	9.6	4.1	4.0	1.2	4
Light-heavy trucks, total.....	11.3	13.0	7.6	11.3	16.2	16



New Experiences with ABBYY Fine Reader and Cataloging

- Learning any new software takes time and practice
- Reflection on inefficiencies → how to improve process for self and others
- Easy to miss small mistakes but with practice it becomes easier
- Attention to detail practiced in cataloging helped make this task easier
- Learning new skills is a not a sprint



Thank You!

