

Upload datasets to DataShare

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Autonomous Agents Research Group

School of Informatics

University of Edinburgh



1. Introduction and Motivation
2. How to upload the dataset
3. Pros and cons



- As a group, we want our research to be reproducible and transparent
- We need a space to upload the group's research data
- DataShare (<https://datashare.ed.ac.uk/>) is the University's digital repository of research data



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Autonomous Agents Research Group

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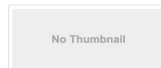
Autonomous Agents Research Group

The Autonomous Agents Research Group is a research unit led by Dr. Stefano V. Albrecht in the School of Informatics, University of Edinburgh. The long-term goal of the group is to develop artificial intelligence and machine learning technologies which enable autonomous agents (such as robots and software agents) to solve tasks in complex environments. The group has a strong focus on problems of coordination and cooperation in multi-agent systems, in which multiple autonomous agents interact in a shared environment. Current research focuses on algorithms for deep reinforcement learning and multi-agent reinforcement learning. The group is also involved in the development of industry applications, including in the areas of autonomous driving (with Five AI) and multi-robot warehouses (with Dematic). We are a member of the ELLIS European network of excellence in machine learning research.

See our research page for more details.

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Items in this Collection



THE INDO AND ROUNDO DATASETS OF VEHICLE OCCLUSIONS

Brewitt, Cillian; Tamborski, Massimiliano; Albrecht, Stefano V

The dataset contains the occlusions for the "Bendplatz", "Frankenburg" and "Heckstrasse" scenarios in the inD [1] dataset, and for "Neuweiler" in the round [2] dataset. The occlusions are stored from the perspective of ...

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[Albrecht, Stefano V \(1\)](#)

Example of dataset page



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THE INDO AND ROUND0 DATASETS OF VEHICLE OCCLUSIONS

No Thumbnail

Date Available

2022-08-11

Type

dataset

Data Creator

Brewitt, Cillian
Tamborski, Massimiliano
Albrecht, Stefano V

Publisher

University of Edinburgh. School of Informatics. Institute of Perception, Action and Behaviour

Relation (Is Referenced By)

<https://doi.org/10.48550/arXiv.2206.14163>

Metadata

Show full item record

Citation

Brewitt, Cillian; Tamborski, Massimiliano; Albrecht, Stefano V. (2022). THE INDO AND ROUND0 DATASETS OF VEHICLE OCCLUSIONS, [dataset]. University of Edinburgh. School of Informatics. Institute of Perception, Action and Behaviour. <https://doi.org/10.7488/ds/3498>.

Description

The dataset contains the occlusions for the "Bendplatz", "Frankenburg" and "Heckstrasse" scenarios in the inD [1] dataset, and for "Neuweiler" in the round [2] dataset. The occlusions are stored from the perspective of each of the vehicles alive in each of the frames contained in the recordings in [1] and [2]. More information about the dataset, and the references to the inD and round datasets, can be found in the README.txt below and at <https://arxiv.org/abs/2206.14163>

Download all files

- bendplatz_json.zip (1.150Gb)
- bendplatz_pickle.zip (737.0Mb)
- frankenburg_json.zip (2.255Gb)
- frankenburg_pickle.zip (1.381Gb)
- heckstrasse_json.zip (481.7Mb)
- neuweiler_json.zip (55.18Gb)
- neuweiler_pickle.zip (27.40Gb)
- README.txt (8.906Kb)

[Preview file]

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← Folders with pickle and JSON files

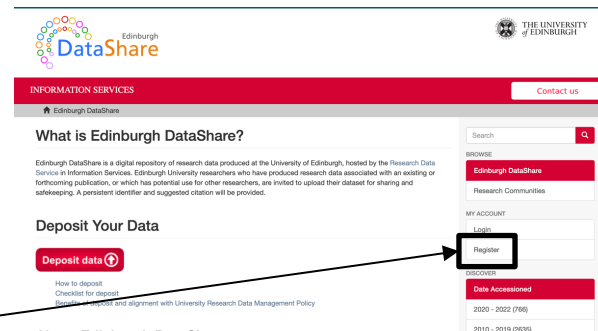


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How to upload the dataset




- The process depends on the size of the dataset
 - Up to 20 GB: use web interface
 - 20-100 GB: "batch upload" procedure
- Either way, you need to create an account
 - Register on the website (<https://datashare.ed.ac.uk/>) with your University email
 - Email the Data Library team (data-support@ed.ac.uk) to deposit data into the group's collection



Submission via web interface (≤ 20 GB)



- You can submit the dataset yourself
- Click **Deposit data**  on the homepage or on the group's collection page
- Fill out the form with the dataset's metadata
- Upload the files
- More info at <https://www.ed.ac.uk/sites/default/files/atoms/files/datashare-january2018.pdf>

Example of submission form



Item submission

Describe Upload Review License Depositor Agreement Complete

Describe Item

Title: *

Enter the main title of the dataset.

Type: *

Select the type of content of the item.

Depositor: *

Surname

First name(s)

Enter the name of the person entering this record.

Data Creator:

Surname

First name(s)

Add

Enter the names of the data creators / principal investigators of this item. If the name of the data creator is unknown please be sure to fill out the Publisher field.

Data Publisher: *

Enter the name of the organisation or service responsible for making the data available. Example: University of Edinburgh, School of GeoSciences, Institute of Geography. Note: Publisher is a mandatory field if no Creator is specified.

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Other fields include:

- **Abstract**
- Data Creators
- Alternative Title
- **Keywords**
- **Subject**
- Spatial Coverage
- Temporal Coverage
- **Abstract: Table of Contents**
- **Relation (is referenced by)**
- Relation (is version of)
- Supersedes
- Source
- Language
- Embargo Date

Submission via “batch upload” (> 20 GB)



- You cannot submit the dataset yourself
- Email the Data Library team at data-support@ed.ac.uk
- You will get access to a shared folder where to upload the files
- Fill out the form with the dataset’s metadata in the spreadsheet provided
- They check the files meet their standard for accessibility
- They upload the files to DataShare
- More info at <https://www.wiki.ed.ac.uk/display/datashare/For+depositors%3A+the+batch+import+process>



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- Free
- Easy to use
- No expiration date
- Hosted by the University
- Technical support available
- Max dataset size is 100 GB



- Can only download data and not visualize it
 - Unlikely they will add tailored features for us
- Cannot easily change the dataset
 - Need to contact the Data Library team to change metadata (cannot change the title) within the first few weeks
 - Cannot change the data unless is under embargo
 - Otherwise, need to supersede the old data with a new submission
- File formats should be among those recommended
(https://www.ed.ac.uk/files/atoms/files/recommended_file_formats-apr2015.pdf)