Plan Overview

A Data Management Plan created using DMPTuuli

Title: Managing_research_information_Sapienza

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Project abstract:

My project is part of the Marie Sklodowska Curie Action doctoral network MiFuture. My research is about Simoultaneous Localization and Mapping (SLAM) for aerial users in 6G networks. Nowadays the research on SLAM is not focused on the radio networks, instead my goal is to extend this technique to also network infrastructure to reduce the costs of having more sensors equipped in the vehicles.

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Managing_research_information_Sapienza

1. General description of data

1.1 What kinds of data is your research based on?

Type of data, a short description	File format(s)	How will data be collected (for re-used data: source and terms of use)?	Will you process any personal data or other types of confidential information?	Give a rough estimate of the size of the data.
simulation data	.mat	Data from simulation in MatLab	No	less than 100 GB
real data	.xlsx	Data collected from the airport for real scenario simulations	Not personal, maybe confidential but still in open access format	less than 100 GB

1.2 How much data storage in total will you require during the project lifetime?

- 250 GB - 5 TB

It depends on How many simulation I run, and how many scenarios I will try to have.

1.3 How will the consistency and quality of data be ensured?

At the moment all the data that I am dealing with are synthetic and generated by me in Matlab with the same algorithm structure. I separate them both in GitLab and my laptop in order in different folder.

1.4 When do you start collecting your data?

I start to collect the data in April 2024 when I had a simulator ready.

2. Ethical and legal compliance

2.1 Will you work with personal data (information that can reveal person's identity directly or indirectly)?

- no

2.14 To determine if there is a need for an ethical review, please check if any of the options below are applicable in your research design.

- My research doesn't require an ethical review.

I deal most of the time with syntetic data coming from simulation. There will be the possibility to collect real scenario data but it will not involve people.

2.15 Do you need research permits to collect data?

- no

2.16 What types of confidential or classified data (other than personal data) or code will you work with? Check all that apply.

- No, I will not work with any confidential or classified data/code.

2.17 What agreements related to the ownership, use or processing of the data are made in the project?

My project includes a company. The data that I will provide may be used by the company for other test. I did not sign any non disclosure agreement and every project in my doctoral network is public since it is part of Horizon Europe 2020.

2.18 Do you use or produce research data or materials protected by copyright or other intellectual property rights?

- no

all the data that I am using are generated with my algorithm that is based from another open source project.

2.19 Is there any legislation or ethical guidelines related to the acquisition, collection, use and sharing of your research data, other than the aforementioned Data Protection Act or the Copyright Act?

no

3. Documentation and metadata

3. How will you document your data?

- Use README files to describe the content of the directories or folders.
- Describe the variables of the data in the data dictionary.
- Describe your data processing software and devices that generate metadata.

4. Storage and backup during the research project

4.1 Where will your data be stored during the project?

- in my work computer's internal hard drive
- Teams workspace Class
- in TUNI OneDrive

4.2 Who will need access to your data?

Me and my supervisors, both from university and the company

4.3 How will the data be backed up?

The data are saved in the TUNI one drive and my laptop hard drive and also in a shared teams folder.

4.4 Who will be responsible for controlling access to your data, and how will secured access be controlled?

Me as the principal investigator. Since they are not sensible there no need to put a restricted access.

4.5 What additional needs do you have for data storage and processing environments?

I do not hink I need other additional needs for my data

4.6 How long will data be stored in the University's storage spaces?

- PI or other designated persons store the data on the university's servers for 1-5 years after the end of the project, after which they destroy the data.

4.7 What data - other than in digital form are used in your research and where are they stored?

only digital

5. Opening, publishing and archiving the data after the research project

5.1 What part of the data described in the table in section 1 can be made openly available or published? Tick all that apply and explain your procedures in more detail.

- All data can be made publicly available.

5.2 Where do you make your data openly available?

- The data will be published in a data journal.
- In publication as supplementary data.

5.3 How will you make your metadata openly available?

- The metadata will be published in a data journal.
- The metadata will be published in Tunicris.
- The metadata will be published in the data repository I described earlier.

5.4 With what license do you define the terms of use of your data or code?

MIT licences

5.5 Where will data with long-term value be archived?

- My data doesn’t need to be preserved for long periods of time.

6. Data management responsibilities and resources

6.1 Who (for example role, position, and institution) will be responsible for data management? Describe the responsibilities and tasks in more detail.

I, PhD researcher at Tampere University will be responsible of data management

6.2 What resources will be required for your data management procedures to ensure that the data can be opened and preserved according to FAIR principles (Findable, Accessible, Interoperable, Re-usable)?

A certain number of hours of working time is allocated to data management in the working time plan, to generate the results.