Safety through Agility: Using Mixed Reality to tune shared autonomy systems

Data Collection

What data will you collect or create?

We will collect driving data of human subjects as they are evaluated within the driving simulator. We have acquired an IRB for this at Penn.

How will the data be collected or created?

The data will be recorded during the use of the driving simulator

Documentation and Metadata

What documentation and metadata will accompany the data?

The driving data will be recorded with timestamps and an anonymous driver ID.

Ethics and Legal Compliance

How will you manage any ethical issues?

We have acquired an IRB for this at Penn.

How will you manage copyright and Intellectual Property Rights (IP/IPR) issues?

All anonymized data will be made available in an open-source dataset

Storage and Backup

How will the data be stored and backed up during the research?

Only anonymized data will be stored in public github repos.

No data related to the human subject name or ID will be stored.

How will you manage access and security?

Only anonymized data will be stored in public github repos.

No data related to the human subject name or ID will be stored.

Selection and Preservation

Which data are of long-term value and should be retained, shared, and/or preserved?

Only anonymized data will be retianed in public github repos.

What is the long-term preservation plan for the dataset?

The data will be preserved for a duration of 6 years.

Data Sharing

How will you share the data?

Only anonymized data will be stored in public github repos.

Are any restrictions on data sharing required?

No restrictions on anonymized data

Responsibilities and Resources

Who will be responsible for data management?

Co-I Helen Loeb will responsible for data management of the anonymized public data.

What resources will you require to deliver your plan?

We only require github

Planned Research Outputs

Dataset - "Safety through Agility dataset"

Anonymized driving simulator data

Planned research output details

Title	Type	Anticipated release date	Initial access level	Intended repository(ies)	Anticipated file size	License	Metadata standard(s)	May contain sensitive data?	May contain PII?
Safety through Agility dataset	Dataset	2024-09-29	Open	None specified	10 MB	Creative Commons Attribution Non Commercial Share Alike 4.0 International	None specified	No	No