

## *Ethics / Privacy / Security*

This study used two types of data: (1) synthetic data and (2) real-life data (i.e., Apollo 13 voice-loop data).

### *Ethics impact assessment*

#### (1) Synthetic data:

The synthetic data was generated using R version 4.2.2 and the R package "REHdynamics", which can be downloaded from <https://github.com/mlmeijerink/REHdynamics>. The synthetic data underwent ethical assessment at Utrecht University and was assigned the [FETC case number 22-1870](#).

#### (2) Apollo 13 voice-loop data:

The Apollo 13 voice-loop data recorded the conversations between the astronauts and the Mission Control from NASA throughout the mission period. For this study, a portion of the data was extracted from the complete dataset, which has undergone ethical assessment by Utrecht University with the [FETC case number 22-1871](#).

### *Privacy and Security*

#### (1) Synthetic data:

The synthetic data used in this study was simulated by Hsuan Lee. As there were no practical participants involved in generating the data, there are no privacy and security concerns associated with it.

#### (2) Apollo 13 voice-loop data:

The Apollo 13 voice-loop data was officially released by NASA in 2009 and is publicly available with no privacy or security concerns. The data can be accessed from <https://github.com/issatseng/apollo13rt>.

### *Permission and Access*

The research archive belongs to Hsuan Lee and is publicly available on GitHub at <https://github.com/HsuanLee01/ThesisResearchArchive>. If you have any further questions, please feel free to contact Hsuan Lee via email at [h.lee@uu.nl](mailto:h.lee@uu.nl).