**Entropy Locomotion Experiment Data Documentation**

This repository contains data collected during the **"entropy\_locomotion"** experiment, focusing on user tracking during locomotion tasks under different conditions. The data is organized into folders according to experimental conditions, with each folder containing timestamps and positional data for participants and obstacles.

**Folder Structure**

The data is structured in the following folders:

* **Obstacle**: Contains obstacle position coordinates with corresponding timestamps. Each entry records the spatial position of obstacles encountered by participants in real-time.
* **BufferClear**: Holds participant position data during locomotion where the trajectory buffer is actively cleared. This approach removes historical data points, resulting in real-time position tracking that does not maintain past trajectory information.
* **noBufferClear**: Contains participant position data during locomotion without clearing the trajectory buffer. Here, the position tracking retains a full history of trajectory points, allowing for a continuous tracking record. *Recommended for analysis.*

**Recommended Data for Analysis**

For trajectory and behavioral analysis, the data in the **noBufferClear** folder is recommended, as it provides a continuous record of participant positions throughout the experiment. This allows for more comprehensive tracking of movement patterns and behavioral insights without interruptions due to buffer clearing.

**Notes**

* **Timestamp Format**: All files include timestamps in UTC format for time-based analysis of movements.
* **Data Usage**: The data can be used to analyze participant trajectory behaviors under varying conditions of buffer management during locomotion tasks, focusing on entropy in locomotion tracking and obstacle avoidance.