Databook

This package accompanies the paper:

> Peter Mitts and Henrique Galvan Debarba (2021). ***On the Use of Handheld Augmented Reality for Inventory Tasks: a Study with Magazine Retailers***. In *IFIP Conference on Human-Computer Interaction* (INTERACT 21).

It contains the dataset and analysis of the user study described in the paper. A short description of the content of the files in the package is presented below:

`user-study-data.csv` – Contains the task performance (time) and questionnaire answers for each trial, all question answers were in a 7-point scale:

- **participant** – the numeric ID of the participant.
- **test.order** – the experiment order in which the withing subject study was carried.
- **method** – the prototype used for this trial.
- **task.1.duration** – how long it took to complete task 1 (registering magazines in a stack for return).
- **task.2.duration** – how long it took to complete task 2 (searching and registering magazines in the stands for return).
- **total.duration** – the sum of **task.1.duration** and **task.2.duration**.
- **overall.difficulty** – answer to the question “Overall, how difficult was this task?”.
- **mental.demand** – answer to the NASA-TLX question “How mentally demanding was the task?”.
- **physical.demand** – answer to the NASA-TLX question “How physically demanding was the task?”.
- **temporal.demand** – answer to the NASA-TLX question “How hurried or rushed was the pace of the task?”.
- **performance** – answer to the NASA-TLX question “How successful were you in accomplishing what you were asked to do?”.
- **effort** – answer to the NASA-TLX question “How hard did you have to work to accomplish your level of performance?”.
- **frustration** – answer to the NASA-TLX question “How insecure, discouraged, irritated, stressed, and annoyed were you?”.

`user-study-analysis.R` – A script in the R programming language that reproduces the results presented in the paper.