# Appendices

### Appendix 1: Experimental design

Table 1a: **P**represents images (numbered 1-6 where 1-3 are easy and 4-6 difficult ) and **I**representsInterface (numbered 1-3 where 1=Field guide 2=Feature selection and 3= Decision Tree). The table shows the order of execution of tasks by each participant to counterbalance the order effects so that each task occupied each position in the order of task execution at least once.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Participant No | Task 1 | Task 2 | Task 3 | Task 4 | Task 5 | Task 6 |
| 1 | P1 I1 | P2 I2 | P3 I3  | P4 I1 | P5 I2 | P6 I3 |
| 2 | P2 I2 | P3 I3  | P4 I1 | P5 I2 | P6 I3 | P1 I1 |
| 3 | P3 I3  | P4 I1 | P5 I2 | P6 I3 | P1 I1 | P2 I2 |
| 4 | P4 I1 | P5 I2 | P6 I3 | P1 I1 | P2 I2 | P3 I3  |
| 5 | P5 I2 | P6 I3 | P1 I1 | P2 I2 | P3 I3  | P4 I1 |
| 6 | P6 I3 | P1 I1 | P2 I2 | P3 I3  | P4 I1 | P5 I2 |
| 7 | P1 I2 | P2 I3 | P3 I1 | P4 I2 | P5 I3 | P6 I1 |
| 8 | P2 I3 | P3 I1 | P4 I2 | P5 I3 | P6 I1 | P1 I2 |
| 9 | P3 I1 | P4 I2 | P5 I3 | P6 I1 | P1 I2 | P2 I3 |
| 10 | P4 I2 | P5 I3 | P6 I1 | P1 I2 | P2 I3 | P3 I1 |
| 11 | P5 I3 | P6 I1 | P1 I2 | P2 I3 | P3 I1 | P4 I2 |
| 12 | P6 I1 | P1 I2 | P2 I3 | P3 I1 | P4 I2 | P5 I3 |
| 13 | P1 I3 | P2 I1 | P3 I2 | P4 I3 | P5 I1 | P6 I2 |
| 14 | P2 I1 | P3 I2 | P4 I3 | P5 I1 | P6 I2 | P1 I3 |
| 15 | P3 I2 | P4 I3 | P5 I1 | P6 I2 | P1 I3 | P2 I1 |
| 16 | P4 I3 | P5 I1 | P6 I2 | P1 I3 | P2 I1 | P3 I2 |
| 17 | P5 I1 | P6 I2 | P1 I3 | P2 I1 | P3 I2 | P4 I3 |
| 18 | P6 I2 | P1 I3 | P2 I1 | P3 I2 | P4 I3 | P5 I1 |

### Appendix 2: NASA TLX workload questionnaire

***NASA Task Load Index***

*Hart and Staveland’s NASA Task Load Index (TLX) method assesses work load on five 7-point scales. Increments of high, medium and low estimates for each point result in 21 gradations on the scales.*

Mental Demand How mentally demanding was the task?



Very Low Very High

Physical Demand How physically demanding was the task?



Very Low Very High

Temporal Demand How hurried or rushed was the pace of the task?



Very Low Very High

Performance How successful were you in accomplishing what

you were asked to do?



Perfect Failure

Effort How hard did you have to work to accomplish

your level of performance?



 Very Low Very High

 Frustration How insecure, discouraged, irritated, stressed,

and annoyed were you?



Very Low Very High

|  |  |  |
| --- | --- | --- |
| Effort or Performance | Physical DemandorTemporal Demand | Performanceor Temporal Demand |
| Temporal Demandor Frustration | Physical Demand or Performance | Mental Demandor Effort |
| Temporal DemandorEffort | Temporal Demand or Mental Demand | Mental Demandor Physical Demand |
| Physical Demandor Frustration | Frustrationor Effort | Effort or Physical Demand |
| Performance or Frustration | Performanceor Mental Demand | Frustrationor Mental Demand |