

# Methods and Tools for (Semi-)Automated Evaluation in Long- Term In-the-Wild Deployment Studies

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# Original Agenda

- 09:00 Welcome, introductions
- 09:15 Short presentations of workshop contributions
  - Michael Koch: Setting up a long-term evaluation environment for interactive semi-public information displays
  - Julian Fietkau: A New Software Toolset for Recording and Viewing Body Tracking Data
  - Christopher Rohde: Using an Elastic Stack as a Base for Logging and Evaluation of Public Displays
  - Julian Fietkau: UBW student contributions (measuring engagement from body tracking data, using machine learning to classify attention, evaluating a gamification study)
  - Jan Schwarzer: A preliminary look at public screen body tracking recordings in a hybrid work setting
- 10:00 Coffee break
- 10:15 Topic roundtables / world café
- 12:00 Lunch

# Adjusted Agenda

- 09:00 Welcome, introductions
- 09:15 Short presentations of workshop contributions
- 10:40 Coffee break
- 10:55 Topic roundtables / world café
  - Topic impulses: write down your ideas for discussion topics on paper cards and send them to me before the coffee break.
    - Could be a question, e.g. “What kinds of contextual information are valuable for interpreting people’s behavior?”
    - Could be a word/concept, e.g. “user privacy”
- 12:00 Lunch

# Topic roundtables / world café

- Topic impulses: write down your ideas for discussion topics on paper cards and send them to me before the coffee break.
  - Could be a question, e.g. “What kinds of contextual information are valuable for interpreting people’s behavior?”
  - Could be a word/concept, e.g. “user privacy”
- The workshop team will use the break to sort the topics into  $n$  (2? 3? depending on the number of participants) discussion tracks.
- After the coffee break, there will be a table for each discussion track with a list of topics and time slots. Participants can take part in any topics they want and move between tables as desired. The groups are asked to use the provided materials to visualize their discussion results.
- Results will not be presented separately, but final visualizations will be photographed and shared with participants.

Gaze  
Directions

- What are people looking at?  
- Do they really notice info?

Time people  
spending at  
PD

"Conversation Rate"  
observation data/  
interaction data

Throughput  
+  
# People  
Interacting

Group dynamics  
Social Effects  
Honeypot

More sensor data?  
Audio? Heat sensor?  
???

Gesture interactions  
(Fun!)

What's your  
'perfect vision' with  
the displays?

Practical uses  
↳ geared towards specific  
contexts / user groups

Learning how  
people interact  
with Displays

Novelty Effect

Effects that can be observed and their connection (cycle)

Group Dynamics

HONEY POT

Movement as Eye catcher

How long does it last?

For which application -on is it more relevant?

QUALITATIVE  
↕ - GIVE  
QUANTITATIVE

Quantitative  
Qualitative

→ Experience Sampling

Q-CONNECT

How to interpret data for interactive systems!

- Multi-Modality
- Always rely on several available data sources

Observation data in Elk?

- Zielbild:  
Zusammenführung / Abrufmöglichkeit aller erfassten Daten zu einem Zeitpunkt / Abstraktionslevel
- Yes
- TBD.  
TBR.

## DATA PROPERTIES

What kind of data/properties do you collect in your installation and how?

- ~~Physiological~~ measures
- Physiological
- Eye Tracking EEG
- Pressure
- Contextual
- Facial expression
- Body ~~EM~~ expression

Centralized data storage

Workplace  
ergonomics

ATM  
SUSP. BEHAVIOUR

POTENTIAL USE CASES

PUBLIC  
TRANSPORT

Data privacy

AT HOME  
REVALIDATION