



MEDIZINISCHE
FAKULTÄT

‘How to Collect Speech Data with Human Rights in Mind’

- The Users' View

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Focus on the user's subjective experience

When data is „objectively save“,

the user him-/herself will experience it as save as well!

???

Last Minute Corpus (2010/2011)

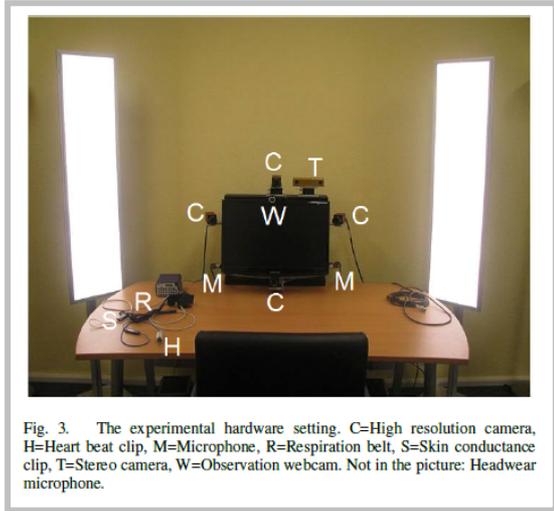


Fig. 3. The experimental hardware setting. C=High resolution camera, H=Heart beat clip, M=Microphone, R=Respiration belt, S=Skin conductance clip, T=Stereo camera, W=Observation webcam. Not in the picture: Headwear microphone.



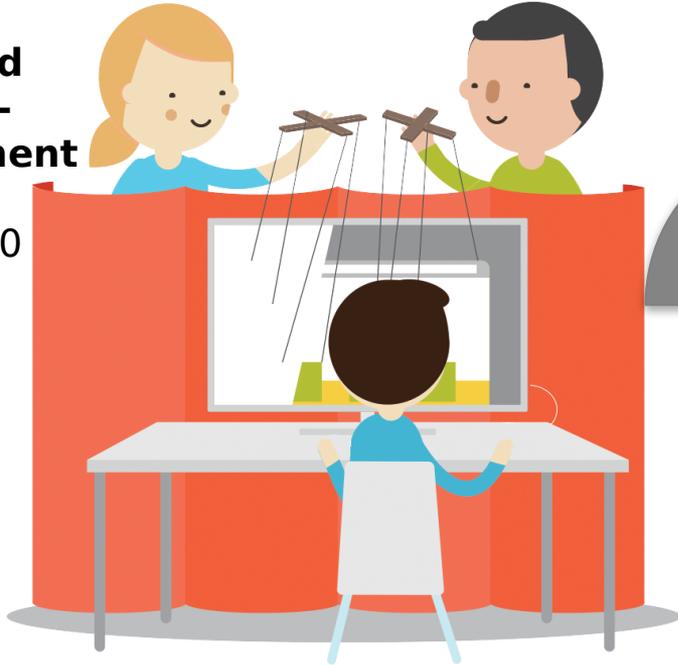
- wizard of oz paradigm
- speech-based system
- system pretended to be a prototype that is able to adapt individually towards its users
- individualization-focused interaction

https://static1.squarespace.com/static/51913f1ce4b07b22f5332872/t/55486691e4b0f2df4ca8b24f/1430808214249/MVP_Theatre

Last Minute Corpus (2010/2011)

**Wizard
of Oz-
Experiment**

N=130



„Please try to put yourself back into the interaction. Please tell me, how you felt with the system. Please tell me in detail, was you thought and experienced in the particular sequences.“



**Semi-
structured
interview
with an
open
narration-
evoking
stimulus**

| | The Nonreflecting <i>- information-disclosure without questioning it -</i> | The Complaisant <i>- adapting oneself to a strange counterpart -</i> | The Skeptic <i>- cautiously finding one's way while faced with fear and skepticism -</i> | The Self-doubting <i>- self-reproaching of one's own shortcomings -</i> |
|--------------------------------------|--|--|--|---|
| Nature of the System | irrelevant | machine | hybrid | machine |
| Capabilities of the System | unquestioned | humanlike but deficient | humanlike, hence frightening | faultless |
| Requirements by the System | ordinary | strange | questionable and inappropriate | overchallenging |
| Relational Offer of the System | trustworthily leading and guiding | adapting and supporting with real interest | intrusively questioning without real interest | testing and judging in order to adapt |
| Adaptation Work of the User | none, because unquestioned | extensively, because system needs support | none, because system has to adapt | completely, but insufficiently fulfilling the demand |
| Self-disclosing Behavior of the User | unhesitatingly working off requests | extensively in self-determined limits | reduced in terms of struggling for control | obediently with ignoring one's own limits |



"I just worked it off and done" (MS)

"then somehow I should introduce myself, I thought ho okay what may be important for this computer program" (UK)

"for me trust in such a software doesn't occur, skepticism remained continuously" (SP)

"I hope I do this right" (BP)



uncertainty and feeling of losing control

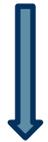


The Nonreflecting

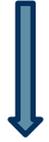
The Complaisant

The Skeptic

The Self-doubting



regain



safety



through



normalizing

reframing

controlling

self-degrading

Convention-Corpus (2019)



- ALEXA Skill represented by Amazon's Alexa
- individualization-focused dialog used in LMC

N = 20

Convention-Corpus (2019)



„Please try to put yourself back into the interaction. Please tell me, how you felt with the system. Please tell me in detail, was you thought and experienced in the particular sequences.“



Convention-Corpus vs. Last Minute Corpus

Fear of data misuse more present while LMC-participants more concerned about keeping the interaction going

„creepy this being-eavesdropped [...] this is the general problem I have with these devices today“ (V08)

...roughly and superficially answered, no names

in LMC more self-disclosure than refusal

...simple [...] I did not want to let emotions flow into my answers and tried to control my pitch [because] I don't know to what extent the machine can use this“ (V02)

Take home message

When...

It is not the objective privacy threats that make up
experienced data security...
it is rather made up by the users themselves
ascribing it
towards the system.



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Thank you for your attention!

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