







Outline of the talk

How can we measure people's engagement with a program, a museum exhibition, and a hike through nature?

The talk will be about assessing and measuring human factors using different methods in different contexts and for various user groups.

What impact does the pandemic have on this field?









Human Factors

• Human factors and ergonomics is the application of psychological and physiological principles to the engineering and design of products, processes, and systems. The goal of human factors is to reduce <u>human</u> <u>error</u>, increase productivity, and enhance safety, system availability and comfort with a specific focus on the interaction between the human and the engineering system.^[1] (Wickens, Gordon, Liu)

Increase user experience ?



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Digital experiences can be assessed with objective and subjective measurements. But, would you answer a questionnaire after a museum visit with 30 questions about installations you even did not look at ?

Objective measurements

- QoS
- Network monitoring
- Image & audio metrics
- ..

Subjective measurements

- QoE
- Questionnaires
- Likert & similar
- Mood detection
- Sentiment analysis...



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How could we characterise the exhibits so that we can get an idea what to change for better user experience? Competition team challenge with visitor(s) in real time with visitor asynchroneously with achieve Interactivity choic eates cont narrativ levements legree; OV OWN itor only linear chronol. sequences and condition choices with no effect on flow Physical Social visitor controls flow parallel narratives high degree of control creative process NR User Control





























