Interactive art in elderly care

Dr. Tom Luyten GIES - 2022



www.tomluyten.com

@tom_luyten_studios



TOM LUYTEN

STUDIOS

- the interactive multi-sensory room
- interactive art in elderly care

generative art and interactive installations

- Maastricht Institute of Arts
 - Qeske Community





Technology is omnipresent

Mainly aimed at assisting, monitoring, care and prevention

Presence research, 2021



Multi-sensory room

For people who live with cognitive and/or physical problems

similarities





cognitive level of the interface

≠

cognitive level of the aesthetic

The art of feeling connected

Interactive art as emotion-oriented care technology in nursing homes



PDF available through:

shorturl.at/esHI2



Participant responses to physical, open-ended interactive digital artworks: a systematic review

Tom Luyten*

Research Centre for Technology in Care, Henri Dunantstraat 2, 6419 PB, Heerlen, The Netherlands Email: tom.luyten@zuyd.nl *Corresponding author

Susy Braun

Research Centre Autonomy and Participation, Nieuw Eyckholt 300, 6419 DJ Heerlen, The Netherlands Email: susy.braun@zuyd.nl

Susan van Hooren

Research Centre for Arts Therapies, Nieuw Eyckholt 300, 6419 DJ Heerlen, The Netherlands Email: susan.vanhooren@zuyd.nl

Luc de Witte

Health Services Research, CAPHRI School for Public Health and Primary Care, Universiteitssingel 40, 6229 ER Maastricht, The Netherlands Email: l.dewitte@maastrichtuniversity.nl Systematic review 13 articles, 22 artworks



Human-artwork responses

- figuring out/ trying to understand how it works
- exploring interface is primary
- frustration: failure to understand the workings





Human-human responses

Verbal

- small discussions about the (workings of) work
- giving instructions
- verbally work together
- negotiating turns





Human-human responses

Cognitive/emotional

- other people: immersive works: another layer of complexity / distracts, prevents immersion. attention/relationship shifts from artwork to other people.
 - but also: exploring more/longer. (not sure if known/relatives, seems to be of importance)
- if unknown: affordance dictates interaction









Partcipant responses to VENSTER



Generic responses

- Recognize, talk out loud and share what is familiar
- Ask about the contents of the installation (video)
- Physically pointing or tapping
- Singing and ticking based on the music
- Almost no social interaction between residents



Partcipant responses to VENSTER



Calming content

- Rapid loss of focus, falling asleep

Activating content

- Generally calm and focussed up to an hour (5-6 people)
- Time for conversation

Interactive content

- Short sessions
- A lot of interaction
- Importance of the (professional) caregiver









Morgendauw

Morgendouw

a moment of interaction







ZU YD



Partcipant responses to Morgendauw

- Residents do not seem to notice Morgendauw (!)
- If they are gestured towards it, immediate foucus, interface is clear
- Interactions lasts about 3 mintures
- Interactions are slow, magic, particles and interactions are closely studied
- Both hands and "rocks" are used to interact

Context

- Placement and characteristics of the installations don't seem to match initial
- Expectations (context/explanation/introduction is needed)
- For example: art in the museum does work (MOMA)



Autonomous use

- Impossible for most, unless **interface-less** experience
- Volunteer or visitor will have to provide a minimum of assistance (no professionals needed)
- Find a balance between **artist-centered** and pure **co-creation**
- The more "active" the experience, the more guidance and professional quality is needed and the more intense a "sessions" is for both participants and caregivers. (technology might be unnecesarry addition)

Social interaction

- All studied works are conversational pieces and a place to come together (visitors/caregivers)
- Social interaction between residents remains a challenge

Take-aways

Figurative art

- responses linked to affordance
- the content can be used as interface
- recognition is the "gate" to experience

Abstract art

- challenges remain, but not impossible
- find a connection with existing mental models and expand together
- context, framing and introduction is very important



Current developments



Vensterr





Vogels

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Kunst beweegt





Minor programme Maastricht institute of arts

