Social Presence

A media psychology perspective

Tilo Hartmann VU Amsterdam t.hartmann@vu.nl SPRING SCHOOL SOCIAL XR, March 13 - 17, 2023



VU!



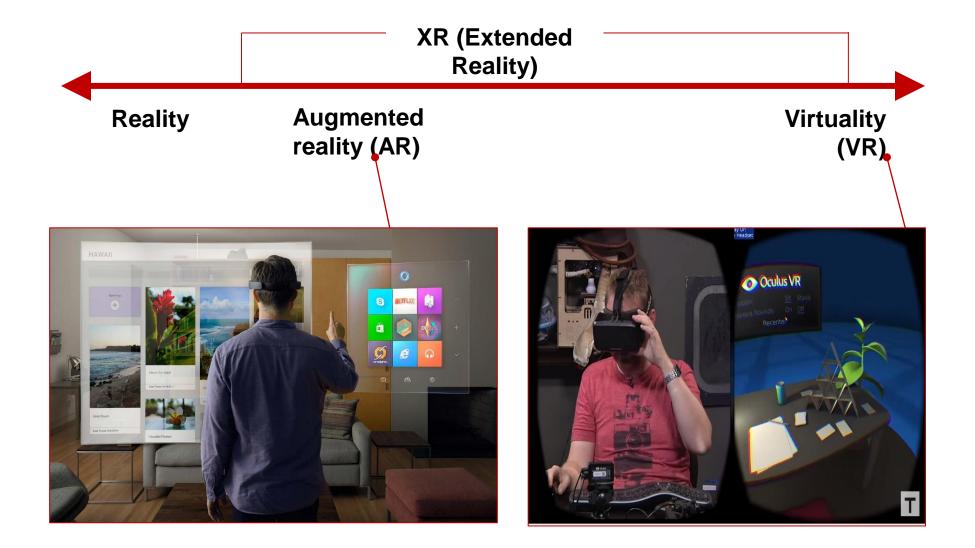
That's me (t.hartmann@vu.nl)



- Tilo Hartmann
- Prof. Virtual Reality
- Communication Science
- Core interest: Perceptual (social) illusions triggered by media technology

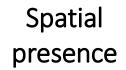


XR Immersive technology Milgram & Kishino (1994)





Presence



Social presence





Self presence

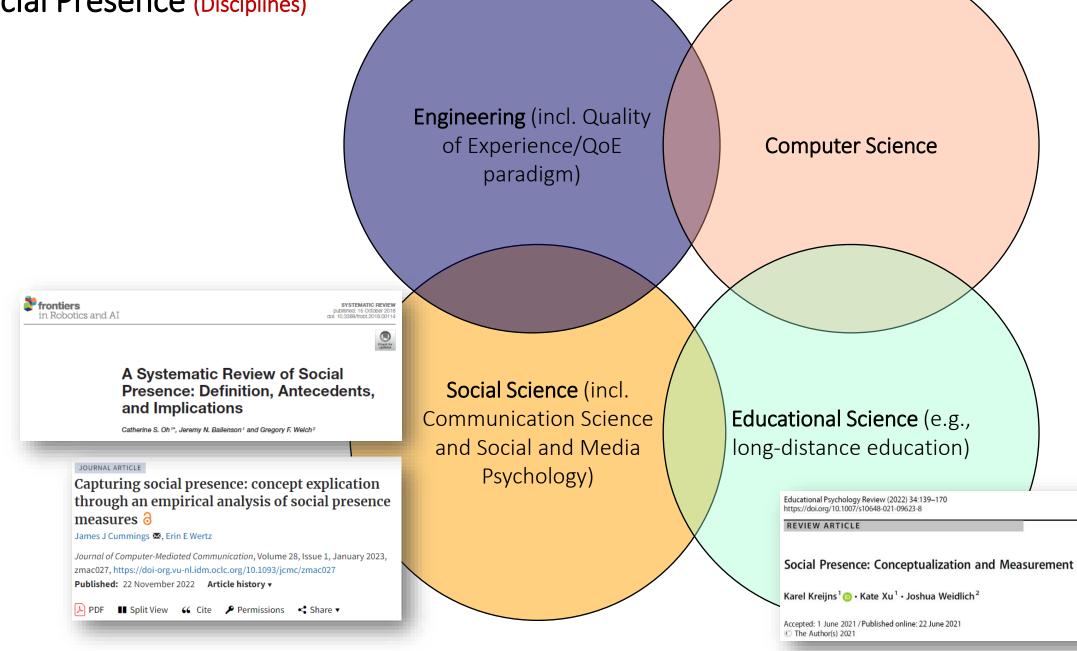


I am there!

We are there together!

This is me! (body-ownership illusion)

Social Presence (Disciplines)



Check for updates Social Presence (immediacy, intimacy, Short et al. 1976)

- "degree of salience of the other person in a mediated communication and the consequent salience of their interpersonal interactions"
- Determined by extent the medium/channel allows to transmit/communicate immediacy behaviours (e.g., smiling, nodding, proximity ~social cues) to foster intimacy (~warmth)



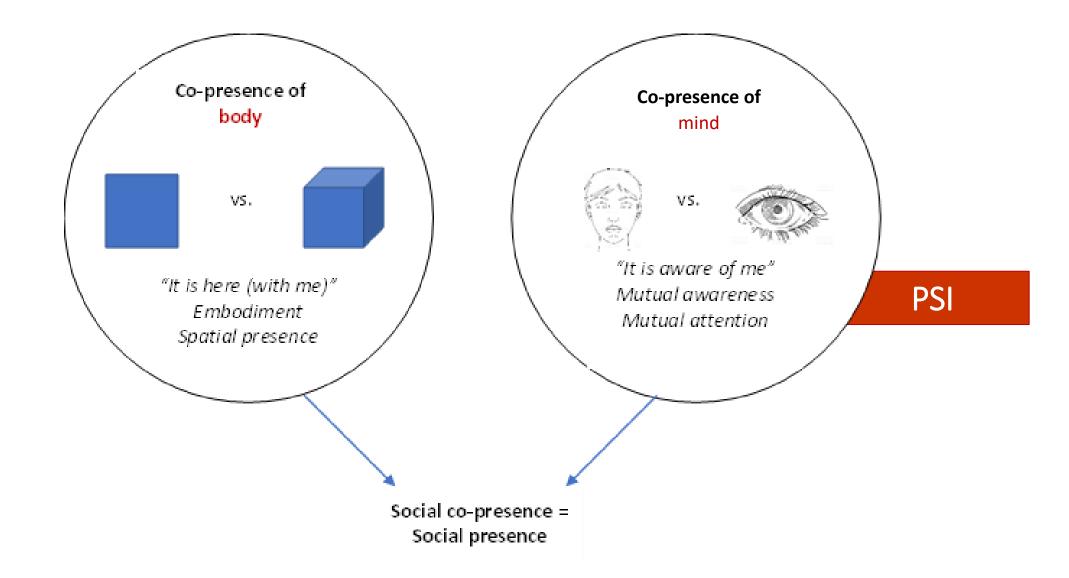
Social Presence Parasocial Interaction (PSI, Hartmann & Goldhoorn, 2011)

- Mutual awareness
- Mutual attention
- Mutual adjustment

	Indirect		Direct			
Item	М	SD	M	SD	t	
EPSI	2.06	1.07	2.49	1.09	3.92**	
While watching the video clip, Amy						
1 was aware of me.	1.88	1.16	2.39	1.24	4.13**	
2 knew I was there.	1.90	1.19	2.51	1.33	4.70**	
3 knew I was aware of her.	2.49	1.47	2.88	1.40	2.70**	
4 knew I paid attention to her.	2.43	1.41	2.92	1.40	3.40**	
5 knew that I reacted to her.	2.05	1.23	2.40	1.28	2.70**	
6 reacted to what I said or did.	1.58	1.01	1.83	1.12	2.31*	



Social Presence co-presence (e.g., Hartmann, in prep.)



Co-presence: Imagine the impact on the observer...

		Body			
		Νο	Yes		
Mind	Νο	Nothing is present.	Another object, unintelligible social agent, or mindless social agent is present.		
	Yes	Another mind, spirit, intelligence is present.	Another body with a mind (animal, human, social creature) is present.		

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Social Presence (+Involvement and Engagement, Biocca et al.,)

"A sense of being with another" in the (virtual) environment

1. Co-presence

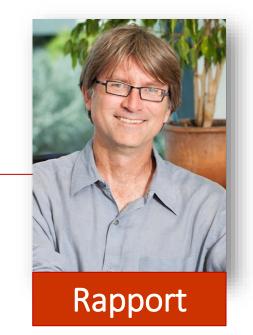
Mutual awareness (I was often aware of others in the environment)

2. Psychological involvement

- Mutual attention (The other individual paid close attention to me)
- Empathy (When I was happy, the other was happy.)
- Mutual understanding (I understood what the other meant.)

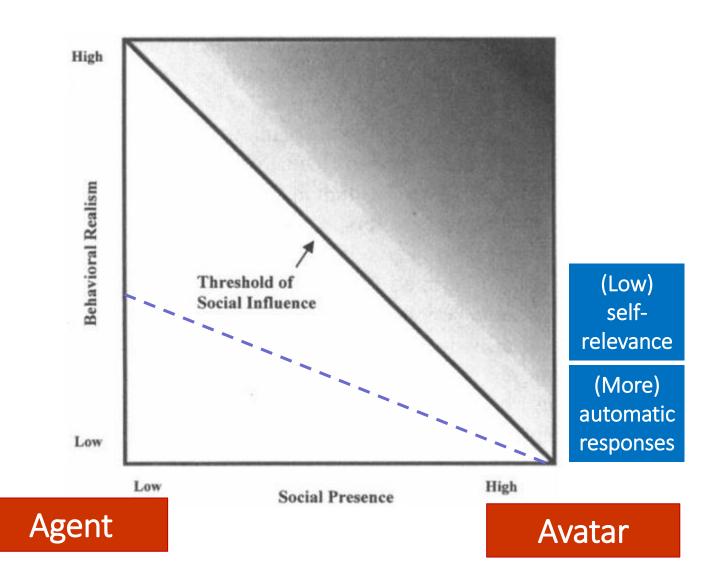
3. Behavioral engagement

- Behavioral interaction (What the other did affected what I did.)
- Mutual assistance (My partner worked with me to complete the task.)
- Dependent action (The other could not act without me.)



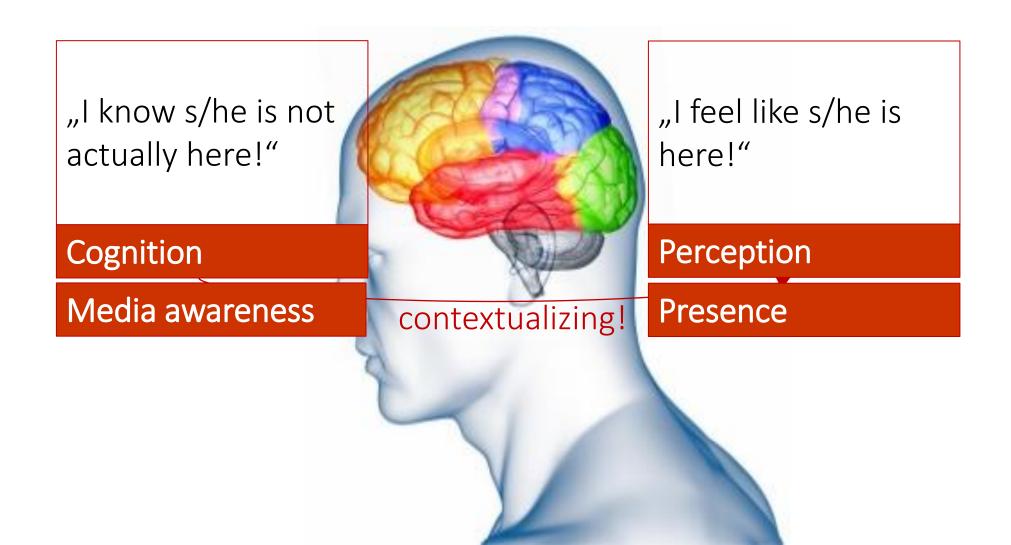
Seeing the other as a real person? Threshold Model of Social Influence, Blascovich et al. 2002

- Confusion since Short et al., 1976: Realness
- Avatars vs. Agents
- Social Influence
 - Avatar = always high (because real human)
 - Agent = depending on behavioral realism/ perceived anthropomorphism
 - Threshold lower for automatic responses, low self-relevance



Media awareness (dual account of XR experience, Hartmann & Hofer, 2022)





Thank you for joining!

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