MORAL RESPONSIBILITY & AVATAR COMMUNITIES IN THE METAVERSE

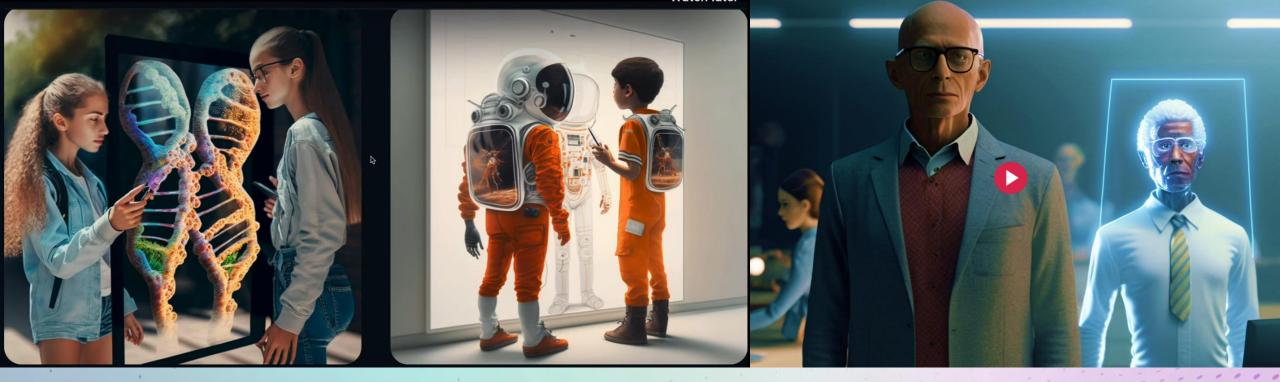
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CHANGER PROJECT Webinar: Immersive Research, Ethical Challenges: Morality & Responsibility in VR online, 16 Jan 2025

DIGITAL TWINS // DUPLICATES // DOPPELGÄNGERS PERSONAL AVATARS // GENERATIVE AGENTS



DIGITAL AVATARS

GENERATIVE AI MULTIMODAL LANGUAGE

MODELS

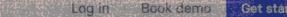
avatars

Gen.Al



😋 synthesia Platform ~ Solutions V Resources V Pricing Enterprise

GEN.AI AVATARS









MIT
Technology
Review



SIGN IN

Al can now create a replica of your personality

A two-hour interview is enough to accurately capture your values and preferences, according to new research from Stanford and Google DeepMind.

By James O'Donnell

November 20, 2024



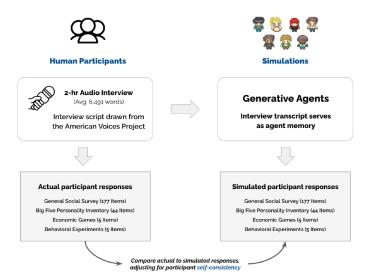


Figure 1. The process of collecting participant data and creating generative agents begins by recruiting a stratified sample of 1,052

Generative Agent Simulations of 1,000 People

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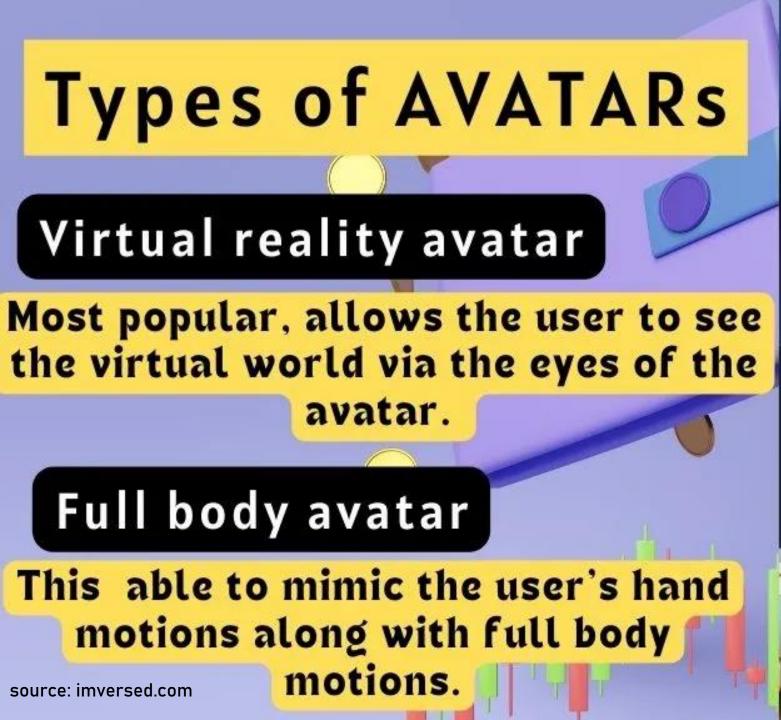
PERSONAL GEN.AI AVATARS +/- HUMAN TELEOPERATOR

Personal avatars

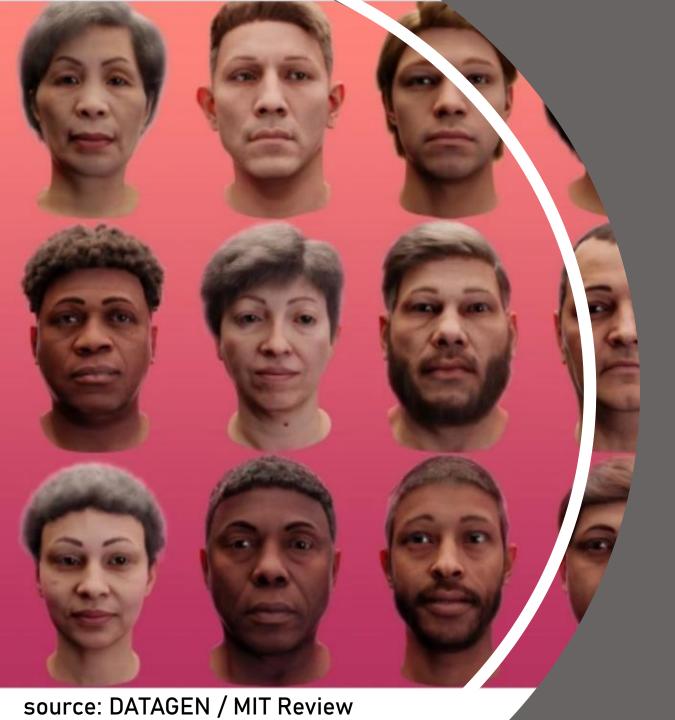
 teleoperated digital or robotic embodied representation of an individual human person in virtual or physical environments, which enables its controller to interact with objects, other users, or entities (Castronova, 2003; Nowak and Fox, 2018)

Personal(-ised) Generative AI avatars

 digital or robotic avatars trained on a personalised corpus of data, to reason and act in the manner of a human controller, even when the human is out of the loop and does not control the avatar in real-time (fully teleoperated// partly teleoperated// no teleoperation).



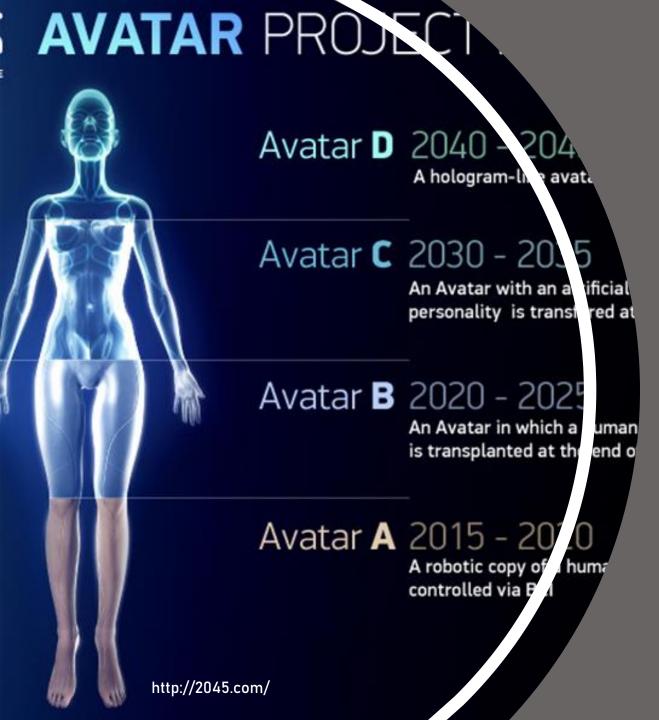




SYNTHETICAL TRAINING DATA

Algorithms + training data sets

- synthetically generated human profiles
- costs, time, scalability
- extrapolation



EMERGENT AVATAR COMMUNITIES

Common to METAVERSE environments:

the persistent and continuous use of multiple avatars by humans and organisations

- relying on highly autonomous AI
 - engaging in multiple interactions with other avatars and the environment
 - results in intertwined relationships that permeate the boundaries of the physical, the augmented and the virtual world



VERSE AVATARS N MENTED REALITY U NEED TO KNOW ABOUT IT



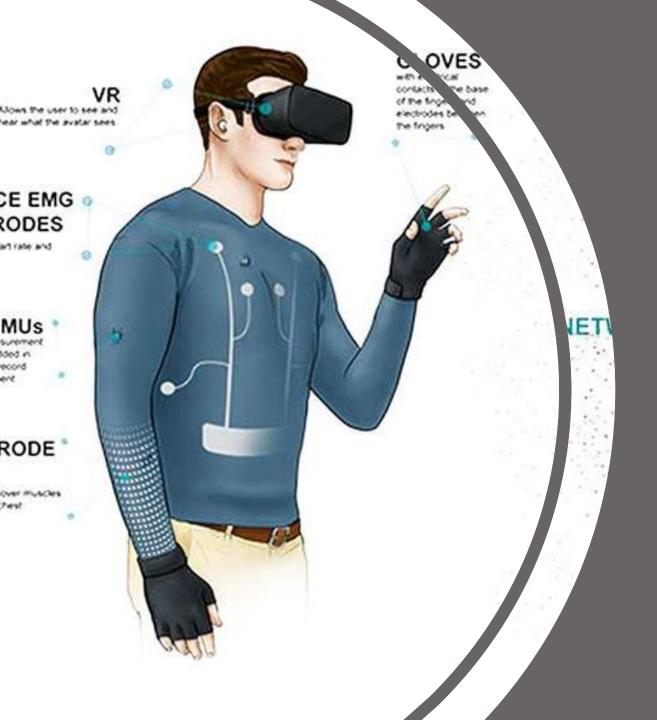
ASCRIBING AGENCY & MORAL RESPONSIBILITY

- The traditional hard line between the physical, the augmented, and the virtual reality is blurred
 - this challenges our traditional concepts of agency and moral responsibility, which are grounded in ontological & epistemological claims about the physical world
 - it might challenge the very notion of agency as a foundation for moral responsibility

A NORMATIVE FRAMEWORK //:

- We need a normative framework for ascribing moral responsibility in emerging avatar communities, that considers the changing nature of agency in technologically enabled metaverse environments:
 - a) the rise of avatar agency
 - b) the deceiving nature of (humanoid) avatars
 - c) the enhancing or diminishing effect of avatar interface on human agency





1. THE RISE OF AVATAR AGENCY

- Various social entities: individuals, collectives, AI
- Various environments: virtual avatars, augmented avatars, cybernetic avatars
- Gen.AI powered avatars induce uncertainty with respect to the entity performing actions:
 - the humans behind the avatars individual agency
 - the organizations behind the avatars collective agency
 - the avatars themselves artificial agency

2. THE DECEIVING NATURE OF (HUMANOID) AVATARS

Fake avatars

presenting themselves as avatars of genuine human users but are companyowned & engage in conversational manipulation, gathering & and using biometric data in real time

Gen.Al powered avatars

 trained to behave according to their users' preferences

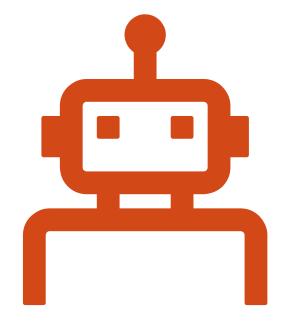
 hang around in bad avatar neighbourhoods & and take up bad habits

when their user is out of the loop & they generate harm, who is to blame?



3. THE (DIS)ENHANCING / EFFECT OF AVATAR INTERFACE/USE ON HUMAN AGENCY

- Avatars seem to enhance users' physical and cognitive capabilities => human agency
 - do humans become more morally responsible through avatar use?
- But avatars might also limit their users' physical and cognitive capacities (perception of the environment)
 - do humans become less morally responsible through avatar use?

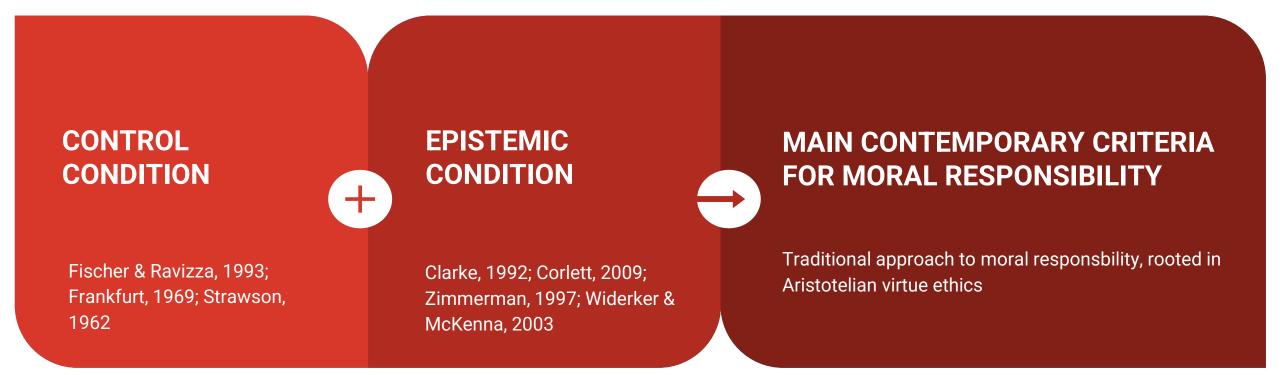


HOW DO WE ASCRIBE MORAL RESPONSIBILITY FOR THE OUTCOMES OF

GEN.AI AVATARS?



CRITERIA FOR MORAL RESPONSIBILITY



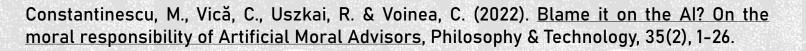
Type of responsibility which is further subject to moral evaluations in terms of blameworthiness or praiseworthiness (Zimmerman 1985)

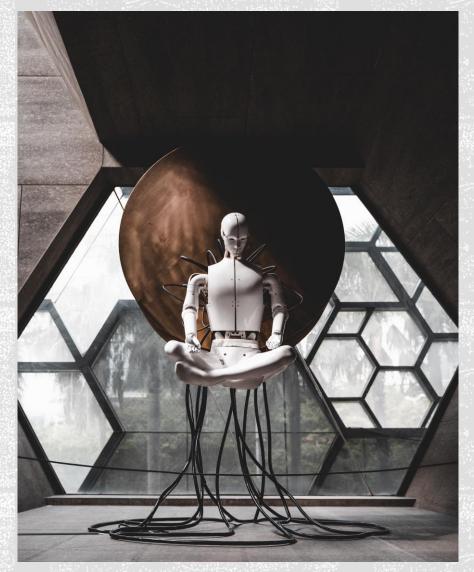




4 VIRTUE ETHICS CRITERIA FOR MORAL RESPONSIBILITY

- 1. CAUSATION capacity to initiate and control (in)action leading to an outcome;
- 2. FREEDOM capacity to act physically and psychologically uncoerced towards an outcome, from own will / intention;
- 3. KNOWLEDGE capacity to be knowledgeable of the relevant details regarding the context of (in)action leading to an outcome;
- 4. **DELIBERATION** capacity to morally evaluate the significance of one's (in)action relative to an outcome.

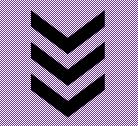




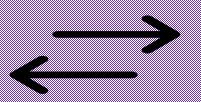
DYNAMIC INTERACTIONS APPROACH

INTERTWINED INTERACTIONS

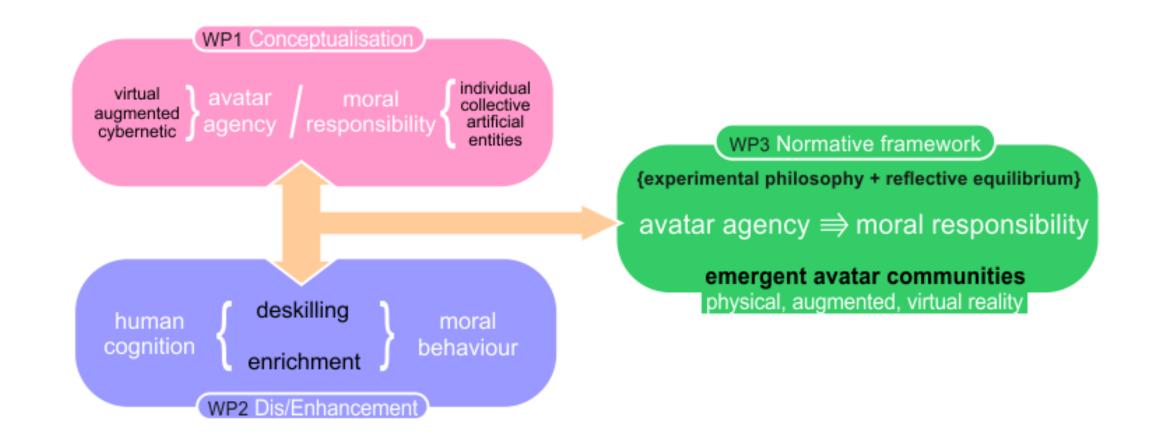
between avatars



mutually enhancing/ decreasing effect



on individual, collective, and artificial AGENCY & MORAL RESPONSIBILITY





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