

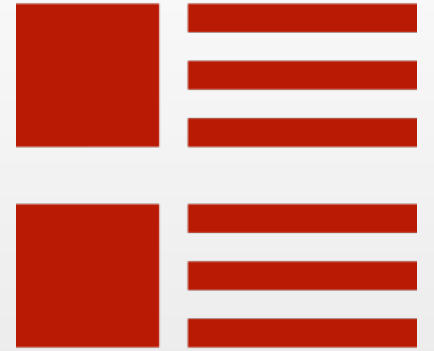


Postphenomenological Study of Epistemological Believes in the Digital Age

Michal Marom and Ilya Levin

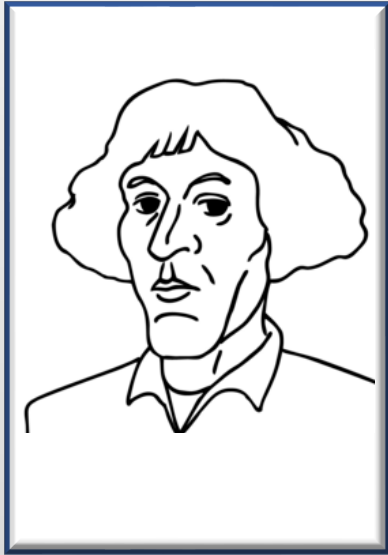
23rd biennial international conference of the Society for Philosophy and Technology, Tokyo, June 2023

OUTLINE



- Introduction. Motivation of the study
- Four revolutions in human consciousness
- Digital Revolution as Generated AI Revolution
- Studies of digital transformations in human consciousness
- Human worldview. The postphenomenological perspective
- Conclusions

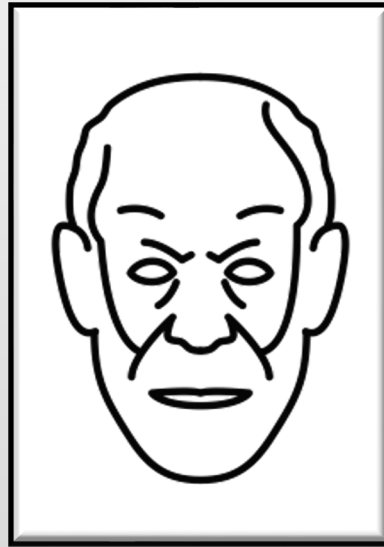
Four revolutions in human history



Copernicus
1543



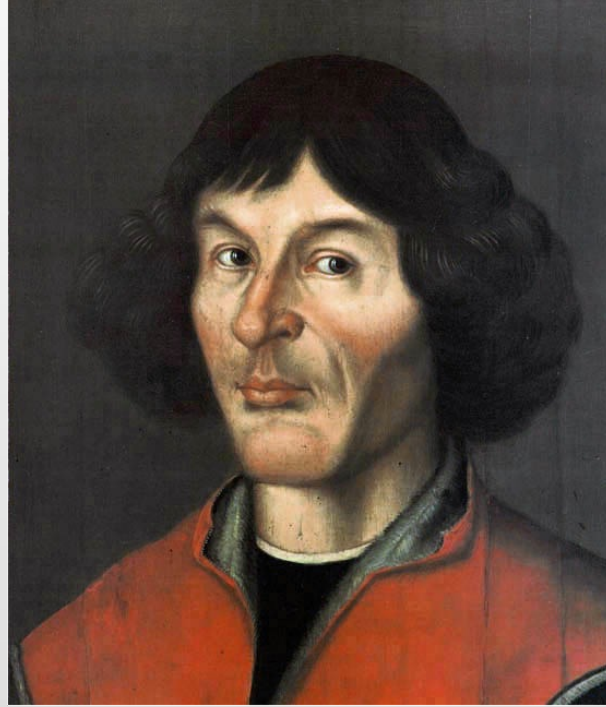
Darwin
1859



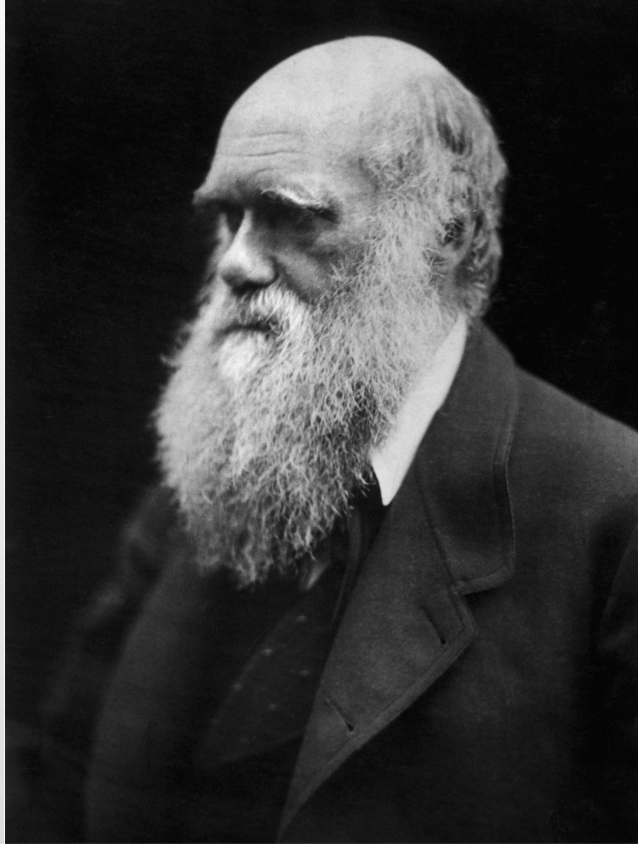
Freud
1917



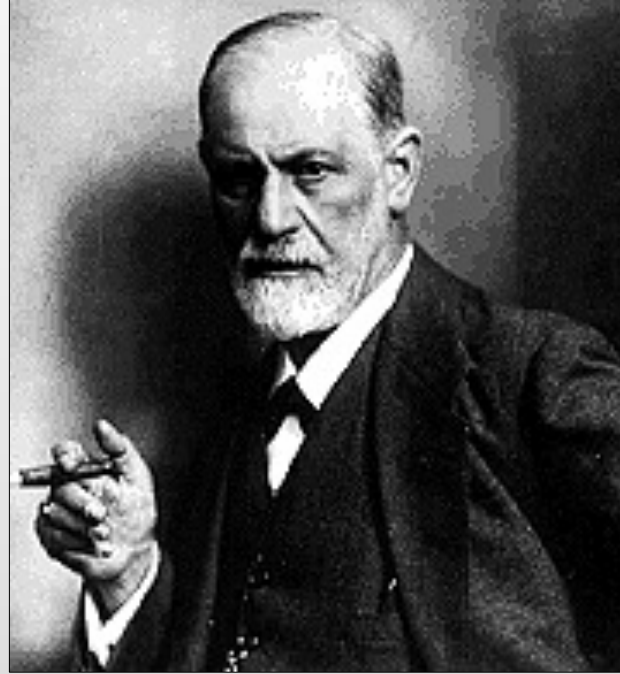
Turing
1936



We are not immobile, at the Centre of the Universe



We are not detached and diverse from the rest of
the animal world



We are not Cartesian subjects entirely transparent
to ourselves



We are not disconnected agents but informational
hyperconnected organisms

Four revolutions (wounds) in human consciousness



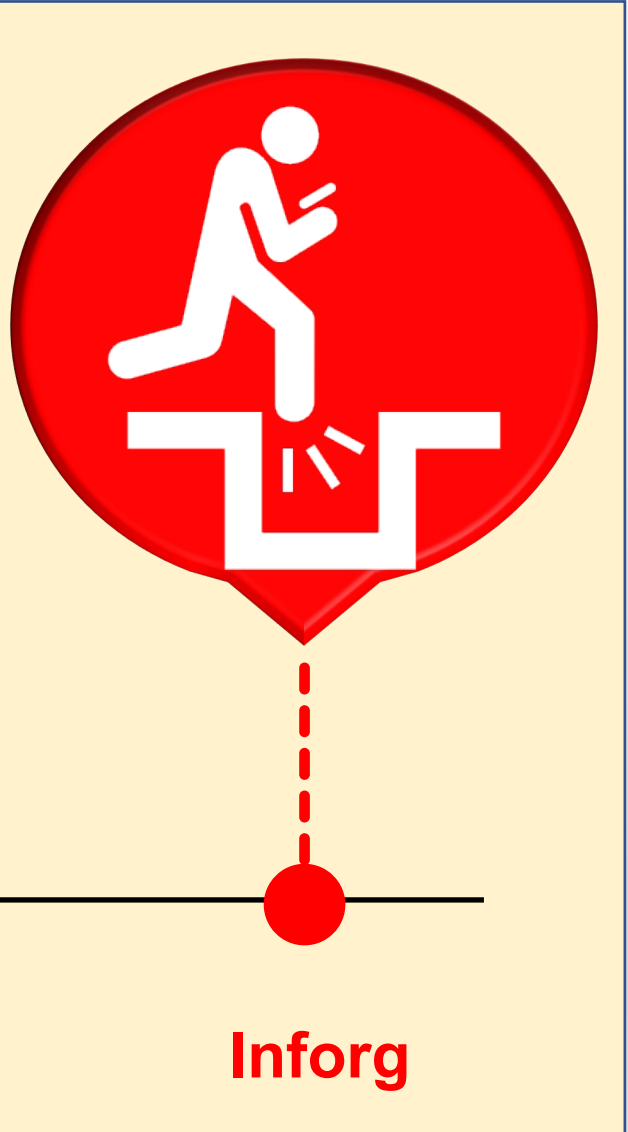
Heliocentrism



Evolution



Subconsciousness



Inforg



LUCIANO FLORIDI

Professor of Philosophy and Ethics of Information,
Oxford University



According to Floridi, the digital revolution is a
“worldview revolution” followed by fundamental
transformations in human **consciousness**

THE PROBLEM...



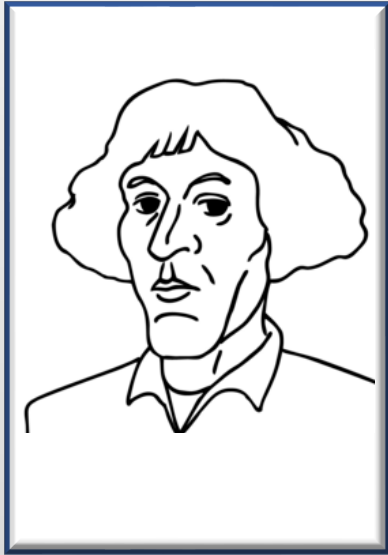
Our study

“Transformations of Teachers' Consciousness as Symptoms of Digital Revolution” (ISF, 2017-2020)

didn't indicate the significant transformations...

while a certain amount of “the existential anxiety” among teachers was expected

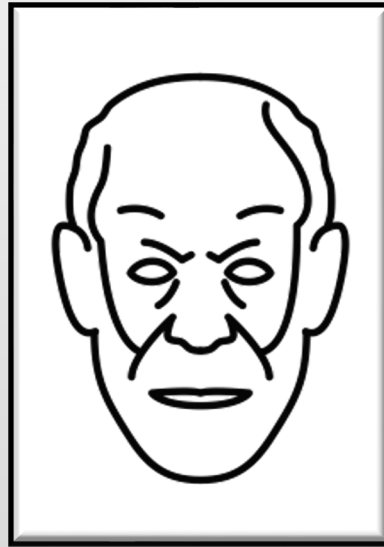
A new vision: Four revolutions in human Consciousness



Copernicus
1473-1543



Darwin
1809-1882



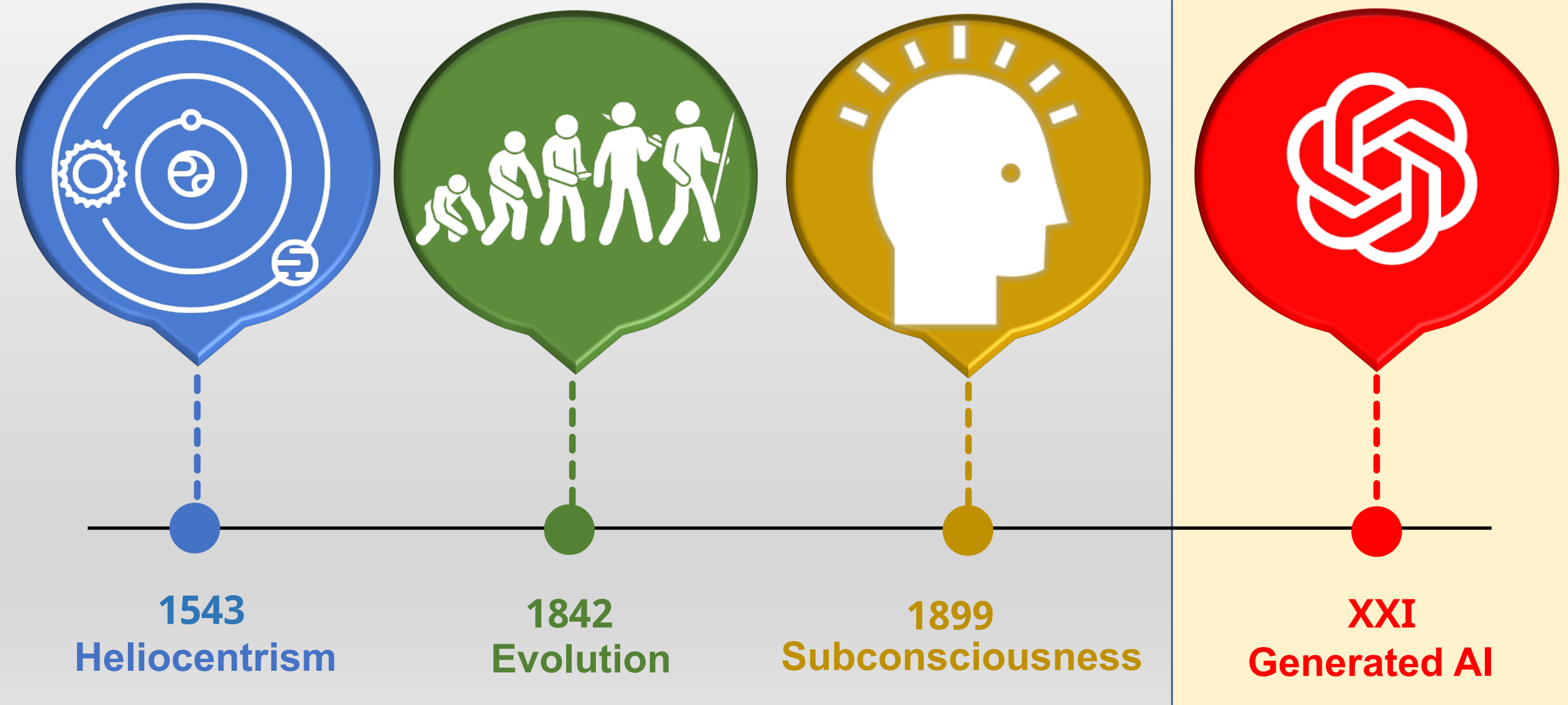
Freud
1856-1939



Altman
Born 1985

A new vision:

Four revolutions in human Consciousness





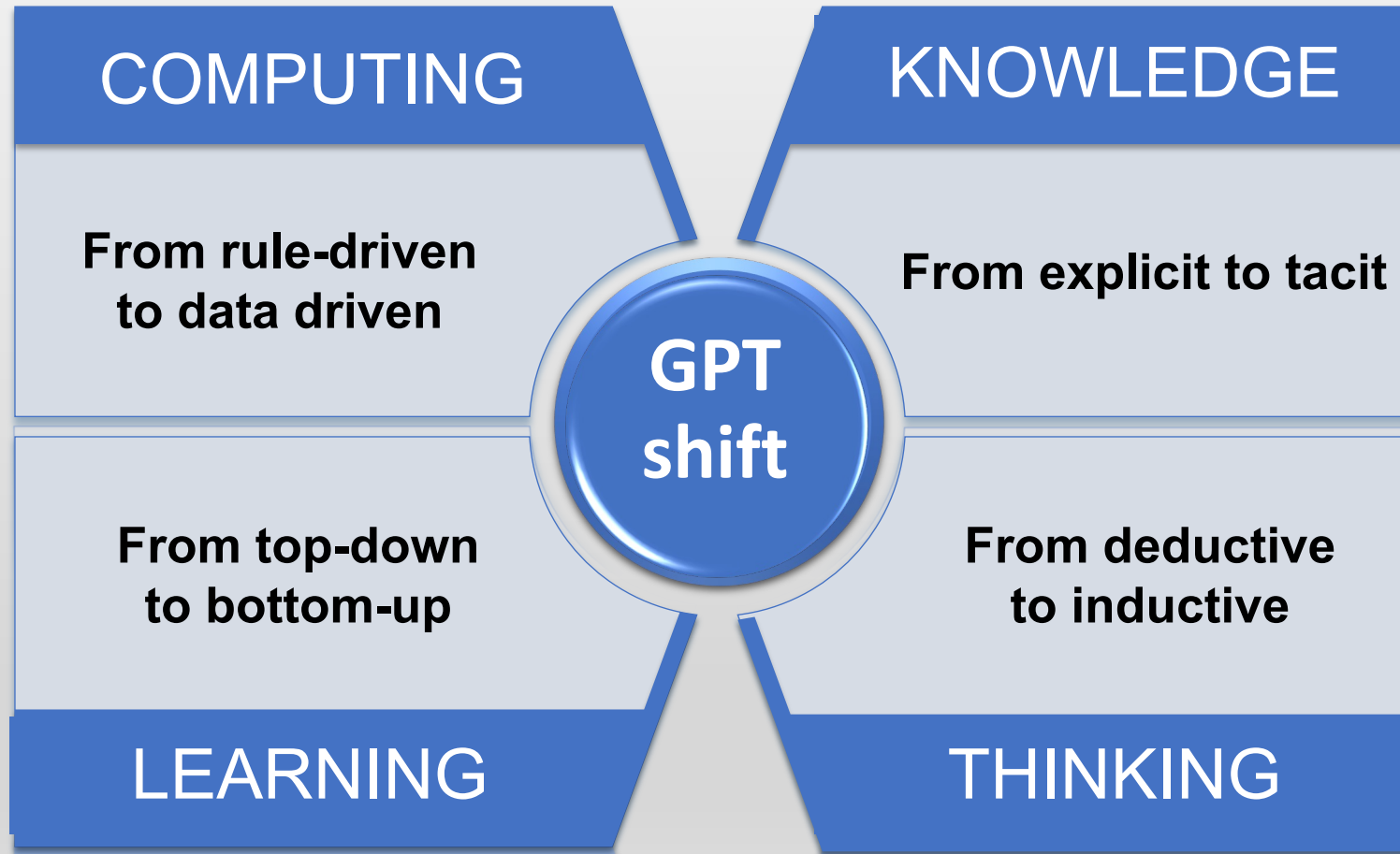
**Our new research hypothesis,
inspired by the ChatGPT emergence:**



- The transition from material to informational metaphysics is insufficient for a substantial transformation of human consciousness
- The awaited transformation of consciousness manifests itself in our perception of the emerging Generative AI, as like ChatGPT

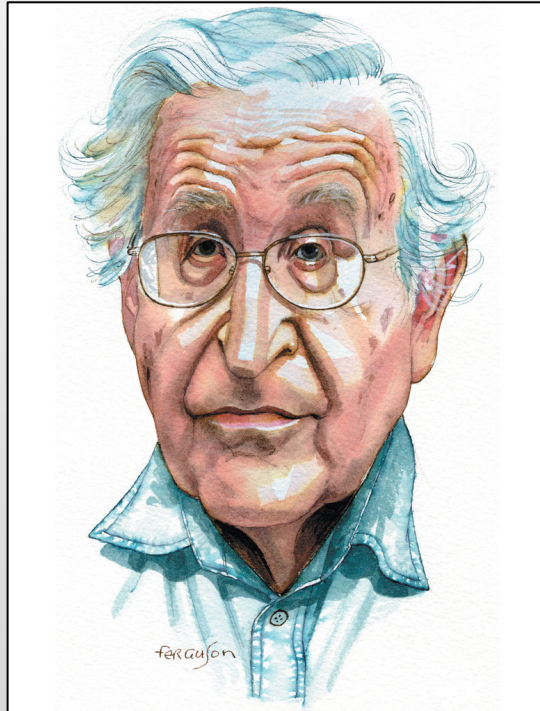


EPISTEMOLOGICAL SHIFT



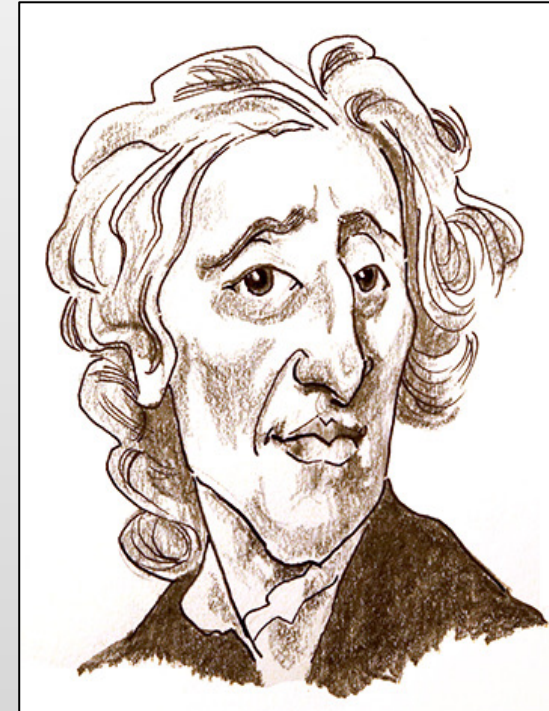


Academic Resentment



Noam Chomsky (born 1928)

ChatGPT Is a Form of “High-Tech Plagiarism”



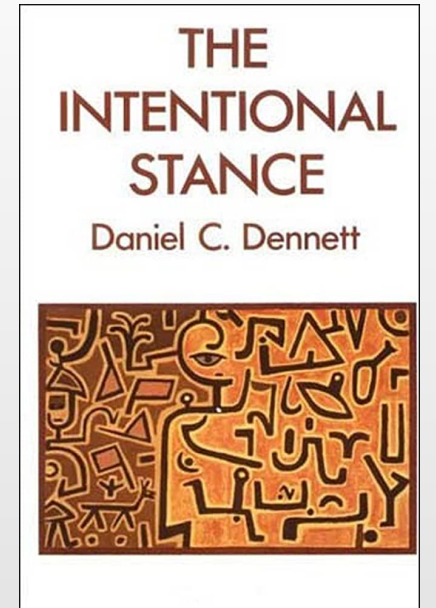
John Locke (1632-1704)

TABULA RASA



Daniel Dennett (born 1942)

THREE STANCES



NATURAL STANCE



DESIGN STANCE



INTENTIONAL STANCE

ChatGPT Intentional Stance Reflection



OUR WORLDVIEW

Our self-conception
(who we are)



Our mutual interactions
(how we socialize)



Our epistemology
(Our conception of knowledge)



Our agency
(Our interactions with reality)





Postphenomenology of worldview

The systematic analysis of the structure of relations we have with technologies provided by postphenomenology can be applied as a productive model for analyzing human worldview

1. Our self-conception (who we are) - **Embodiment**
2. Our perception of knowledge (our epistemology) - **Hermeneutics**
3. Our mutual interactions (how we socialize) - **Alterity**
4. Our interactions with reality (our agency) - **Background**



OUR SELF-CONCEPTION IS CHANGING

Our awareness that a Generated AI has an intentional stance toward us can transform our behavior, including body movement.

EMBODIMENT

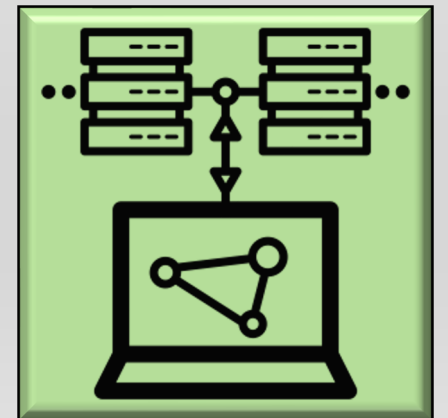




OUR EPISTEMOLOGY IS CHANGING

Generated AI can transform epistemology by including humans in the hermeneutic relation as inseparable participants in understanding and cognition.

HERMENEUTICS

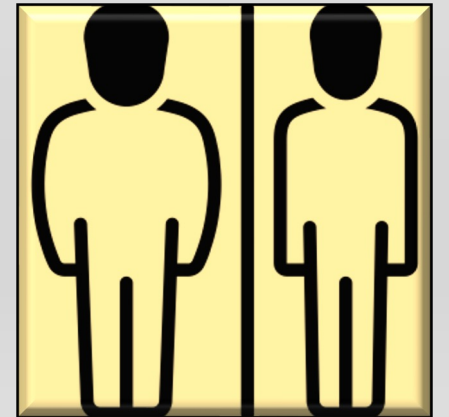




OUR MUTUAL INTERACTIONS IS CHANGING

In alterity relations, the Generated AI is experienced as a quasi-other with which the user engages in a kind of dialogue.

ALTERITY





OUR AGENCY IS CHANGING

We are - an integral component of the Generated AI environment.

BACKGROUND



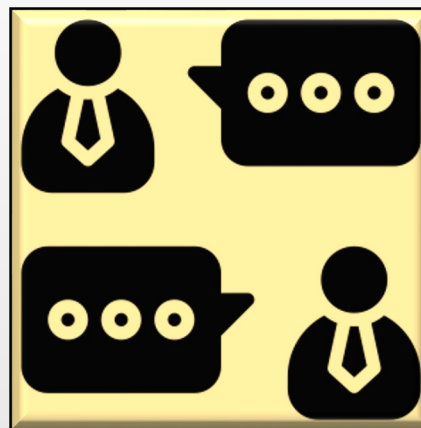
Worldview



Our Self-conception



Our Epistemology



Our Interactions

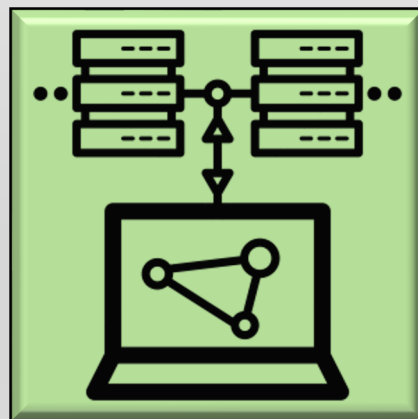


Our Agency

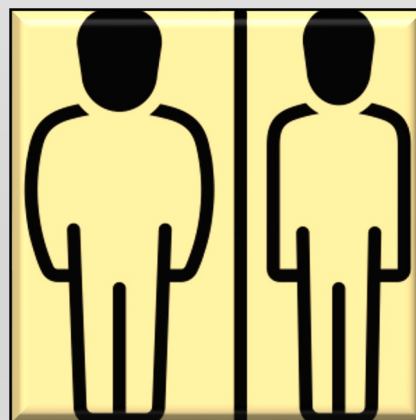
Postphenomenology



Embodiment



Hermeneutics



Alterity



Background



Recent Publications:

- M. Marom, G. Wellner, I. Levin. Epistemology and Education in the Digital Age – A Postphenomenological View. EDULEARN22.
- G. Shamir, G. Wellner, I. Levin. Postphenomenological Studies of Machine Learning Education in Elementary School. EDULEARN22.
- G. Wellner and I. Levin. Ihde Meets Papert: Combining Postphenomenology and Constructionism for a Future Agenda of Philosophy of Education in the Era of Digital Technologies. Learning, Media and Technology (submitted for publication).
- G. Wellner, I. Levin. A Postphenomenological-Constructionist Assessment of AI in Education, *Postphenomenology and Technologies Within Educational Settings* (submitted for publication).

CONCLUSIONS

- The emergence of the Generative AI reshapes the perception of the Digital Revolution as a revolution in human consciousness
- The human perception of artifacts as having an intentional stance regarding human beings is the focus of research on the transformation of human consciousness
- In the AI age, the human worldview can be effectively represented as a system of postphenomenological relations