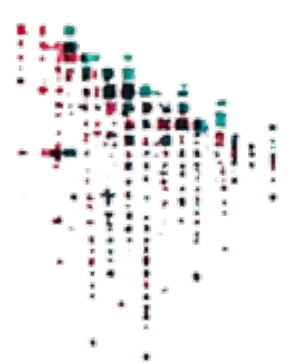


14/07/26

CO-CONSTRUCTING CRITIQUE

Social XAI and Critical Computational Literacy



Dan Verständig | Educational Theory and Practices of Critical Computational Literacy



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Why?



?



An aerial photograph of a beach. On the left, the golden sand of the shore is visible. To the right, the ocean is a deep teal color. White, frothy waves are crashing onto the beach, creating a stark contrast with the dark water and sand. The text is overlaid on the right side of the image, over the ocean.

Explanations
are for someone,
for some purpose,
in some context.

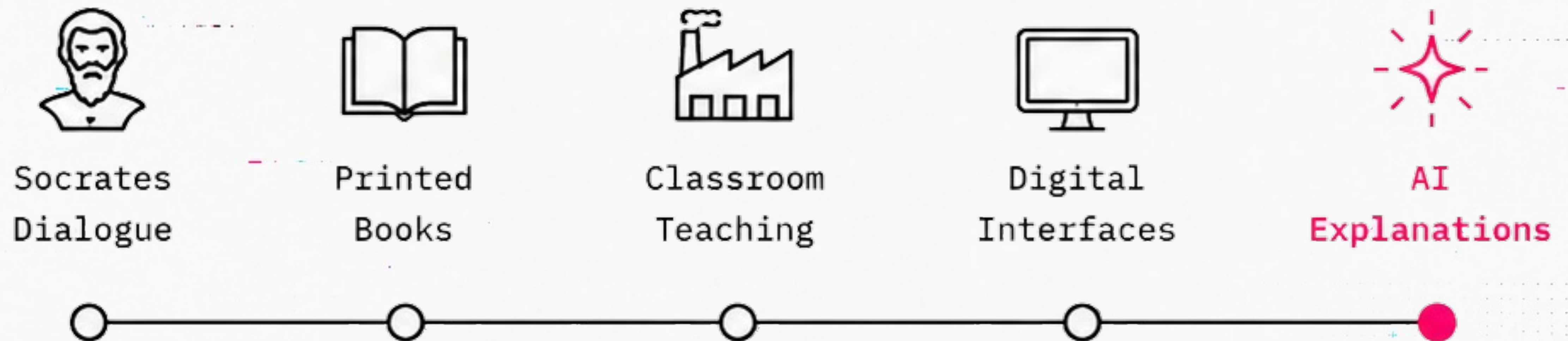
Explanations

provide orientation.

They reduce uncertainty.

They make our society and
world inhabitable.

A brief timeline



Explanations are
never just technical.



We place the interaction at the center of our approach to social aspects of explainable AI and propose that it is a means by which an explanation becomes relevant. Inspired by social interactions, we define **sXAI (social explainable AI)** as systems that interactively adapt to users in order to co-construct a satisfying explanation.

(Rohlfing & Lim, 2026, p. 8)

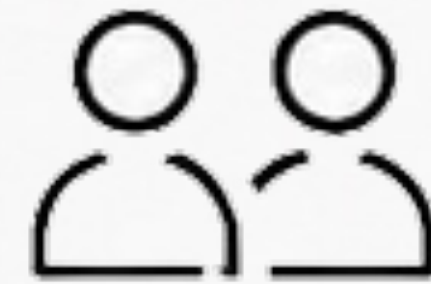
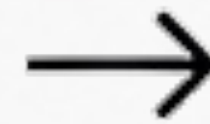
Co-Construction

AI Explanations

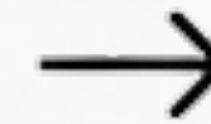
Not delivered.
Co-constructed.



System
(output)



People
(interpretation)



Meaning
(construction)

Co-Construction Workshops



Interested



Contact us

trr318.de

What counts
as evidence?

Who benefits
from this?

AI explanation

- Because A contributes to B
- Based on patterns in the data
- This is the most probable outcome

What is
missing?

Do we
agree?

What are the
alternatives?



Critical Computational Literacy



Attitude



Biography



Capacity



Critical Computational Literacy



Attitude

Critical Stance
Value Awareness



Biography



Capacity



Critical Computational Literacy



Attitude

Critical Stance
Value Awareness



Biography

Subjectivity
Various encounters
Diverse pathways



Capacity



Critical Computational Literacy



Attitude

Critical Stance
Value Awareness



Biography

Subjectivity
Various encounters
Diverse pathways



Capacity

Analytical
Creative
Ethical



Critical Computational Literacy



Attitude

Critical Stance
Value Awareness



Biography

Subjectivity
Various encounters
Diverse pathways



Capacity

Analytical
Creative
Ethical



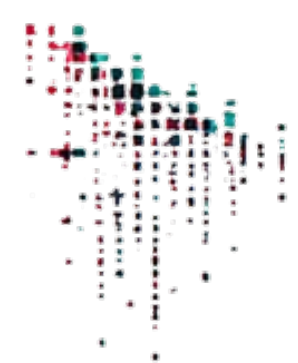
Critique

Asking what
matters and **why**.

Let's discuss!

Let's discuss!

Meet the working group: medienbildung.team



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