

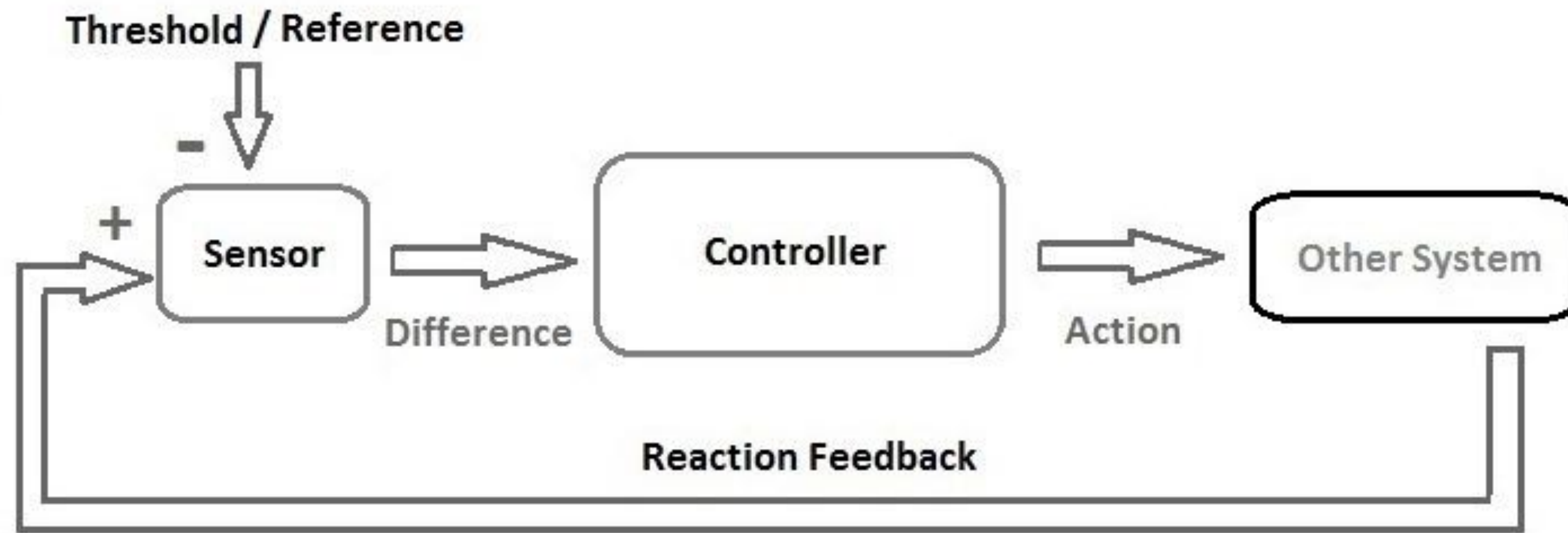
Mindaugas Gapševičius. Non-machines: An attempt to understand life as it is

Non-Machines

Non-machines are humans and non-human actors or tools that are not yet integrated into a machine network, such as a creature evolving freely in nature, or a human not connected to digital networks.

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Cybernetics

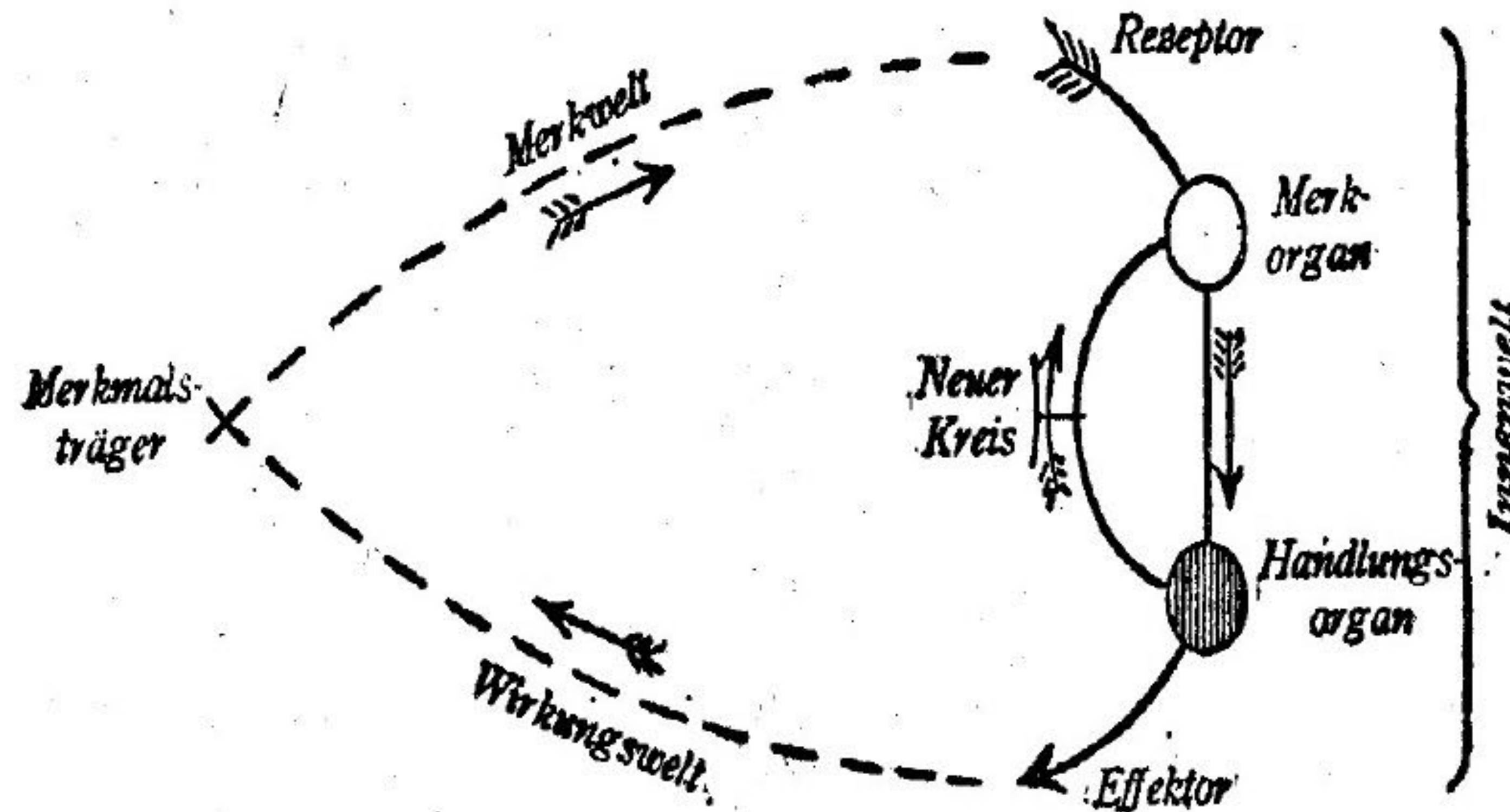


A Cybernetic Loop

"Cybernetics is the transdisciplinary study of circular causal processes such as feedback and recursion, where the effects of a system's actions (its outputs) return as inputs to that system, influencing subsequent action."

Wikipedia. <https://en.wikipedia.org/wiki/Cybernetics>

Feedback loops



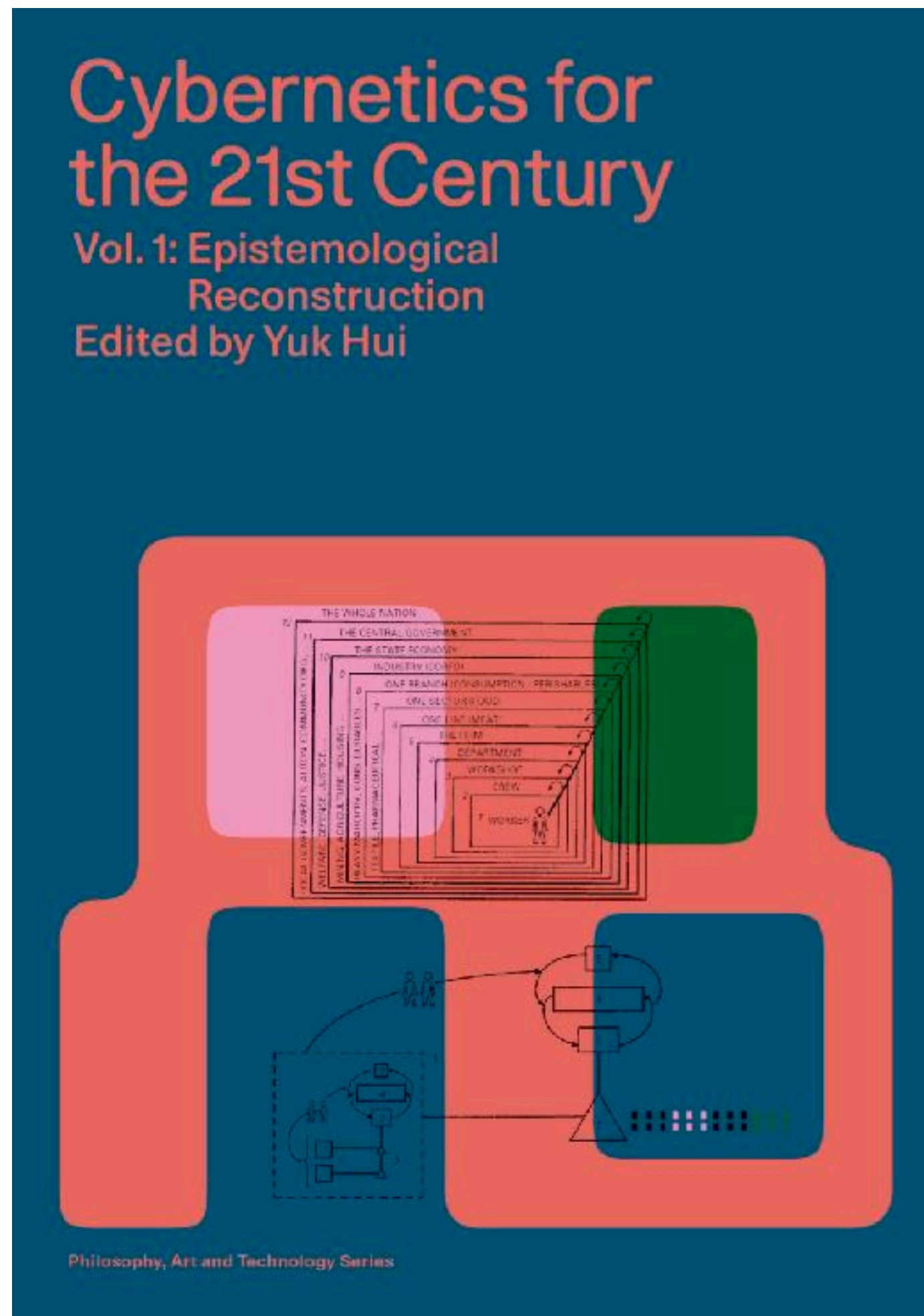
Figur 4.

Jacob von Uexküll in his book *Theoretical Biology* (1926) described the adaptation of a living organism in its environment through the number of activities undertaken by the organism. In his concept, Uexküll distinguished between two sets of functions: the internal cycle and the external circle. In addition to the external function circle, which includes sensing (Merkwelt) and acting (Wirkungswelt), in the animal world, the animal has its inner function circle, which helps it to reflect its senses and act upon them, in turn, influencing its Umwelt

Uexküll, J. v. 1926. *Theoretical Biology*. New York: Harcourt, Brace & Company Inc.

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Cybernetics for the 21st Century

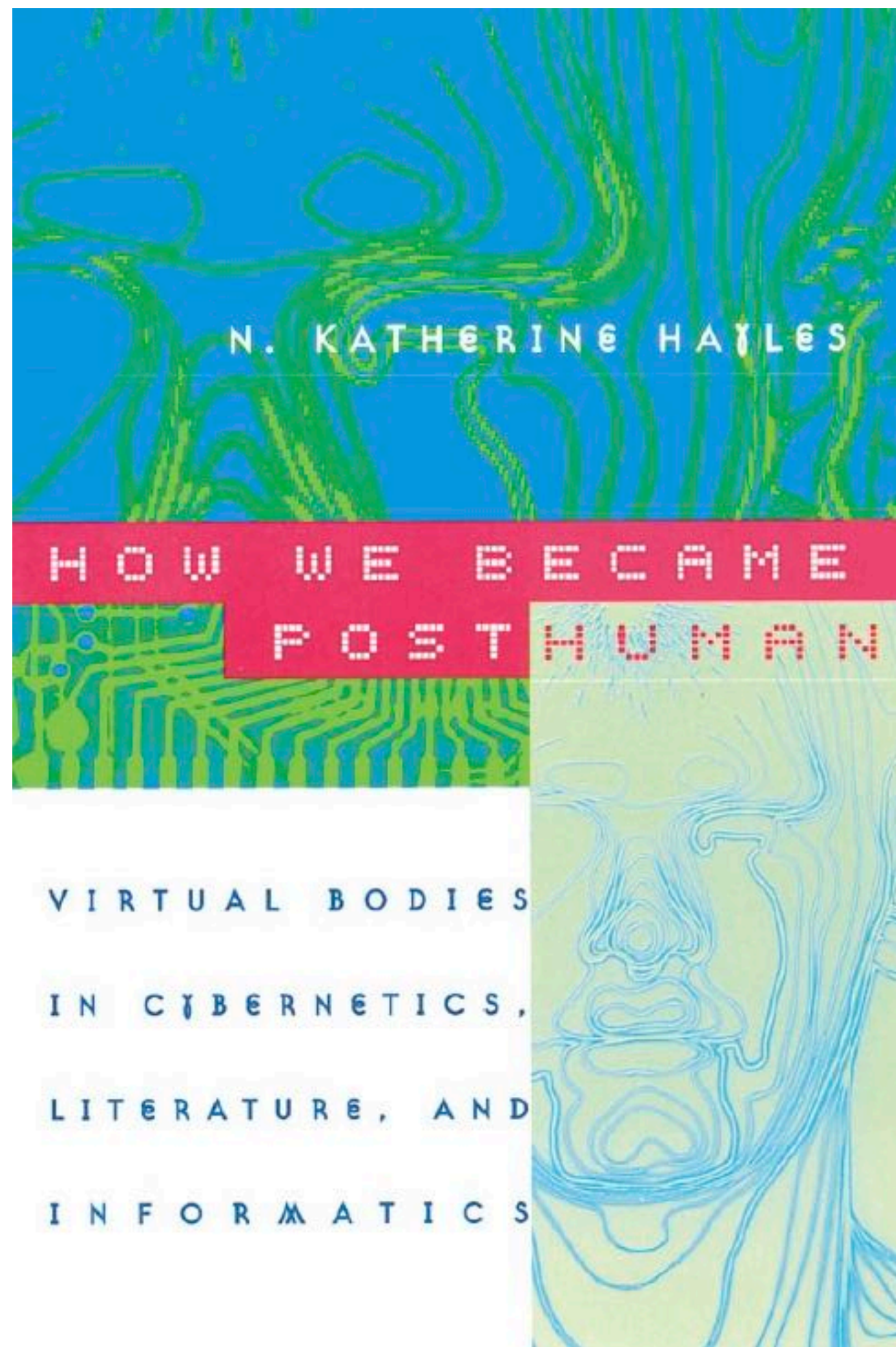


"...cybernetics aims to break through the opposition between mechanism and vitalism and developed a theory of organismic operation based on feedback." (Yuk Hui, Cybernetics for the 21st Century)

Hui, Y. (2024). Cybernetics for the 21st Century. Vol. 1: Epistemological Reconstruction. Hong Kong: Hanart Press. p.14.

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How We Became Posthuman

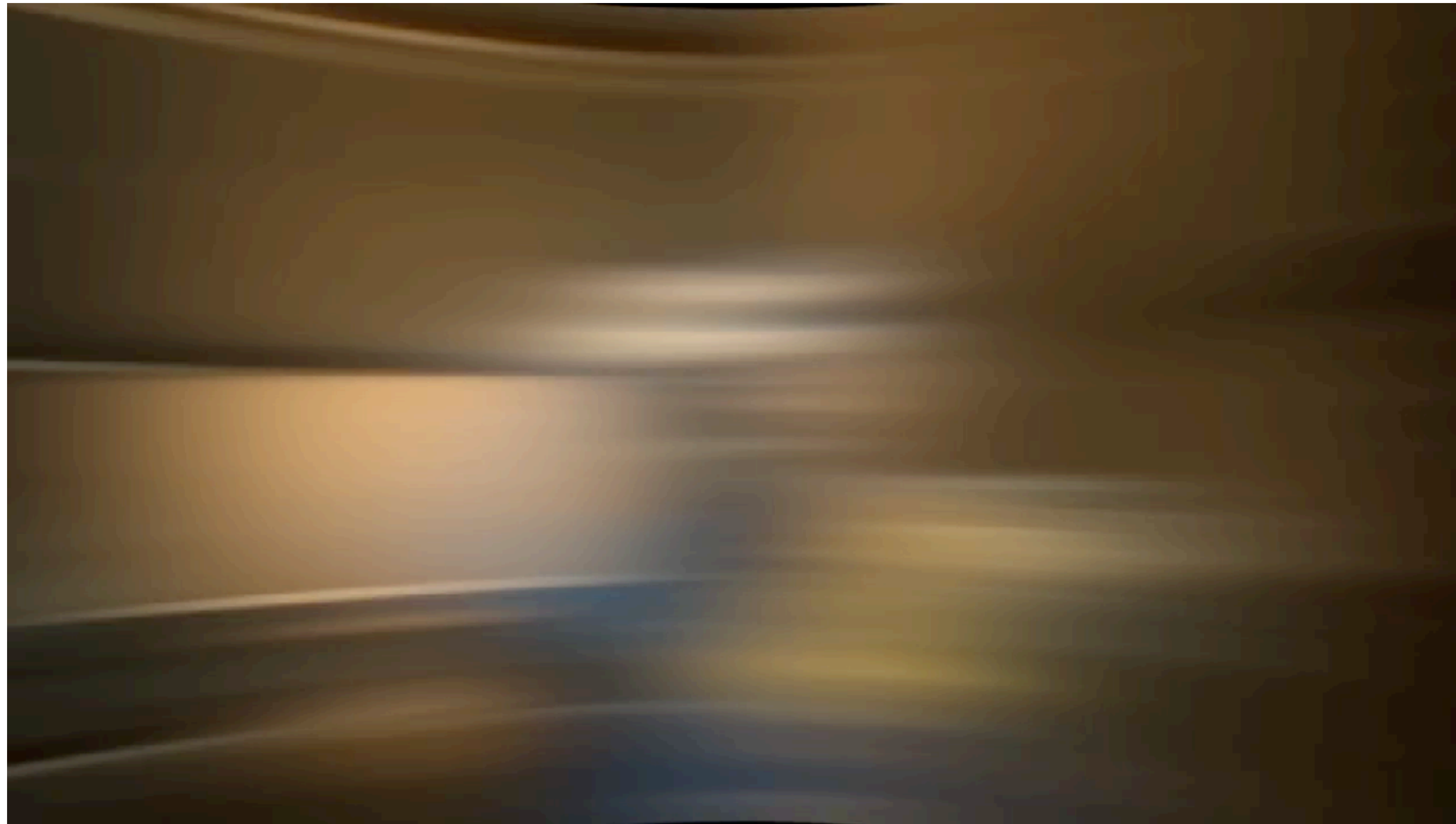


“there are ... no essential differences or absolute demarcations between bodily existence and computer simulation, cybernetic mechanism and biological organism, robot teleology and human goals” (Hayles 1999, 3).

Hayles, N. K. 1999. How We Became Posthuman: Virtual Bodies in Cybernetics, Literature, and Informatics. Chicago: The University of Chicago Press. p.3.

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AI Uncovered



1. Quantum supremacy meets AI
2. The rise of embodied AI
3. Emotional intelligence: the new frontier
4. The bio-digital convergence
5. Artificial general intelligence: closer than we think?
6. The end of traditional programming
7. The AI-powered scientific method
8. The ethics of superintelligence
9. The new economics of AI
10. The AI singularity

The question posed: "Are we ready for it"?

AI Uncovered (2024). "Here's How AI 2.0 Will Be DIFFERENT." Available at <https://www.youtube.com/watch?v=HkS3cG3jCt0> (Accessed 12 November 2024).