



ASTER

SEEDS HackSciArt

SEED 12-IA

RESEARCHERS

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1. ESSENTIAL DIMENSION

(Objective descriptive information of the scientific seed)

NAME

“Concept-factory”

KEYWORDS

Concept emergence, formal concept

BRANCH

Artificial intelligence

ABSTRACT

Concepts are a very important part of human reasoning. But are there concepts in animals? If so, then would we have the possibility to recreate them with machines? Will and freedom, apart from consciousness, add too many unknowns to the understanding of the human capacity to conceptualize the reality around us. If the *animal dream* hypothesis were true, then we might think that an artificial simulation is possible.

METAPHOR

When there were no maps you could not navigate; in the same way, when we do not know how animals conceptualize, it is as if we lack the map. The metaphor is navigation without a map.

PHASES OF THE USUAL SCIENTIFIC METHOD

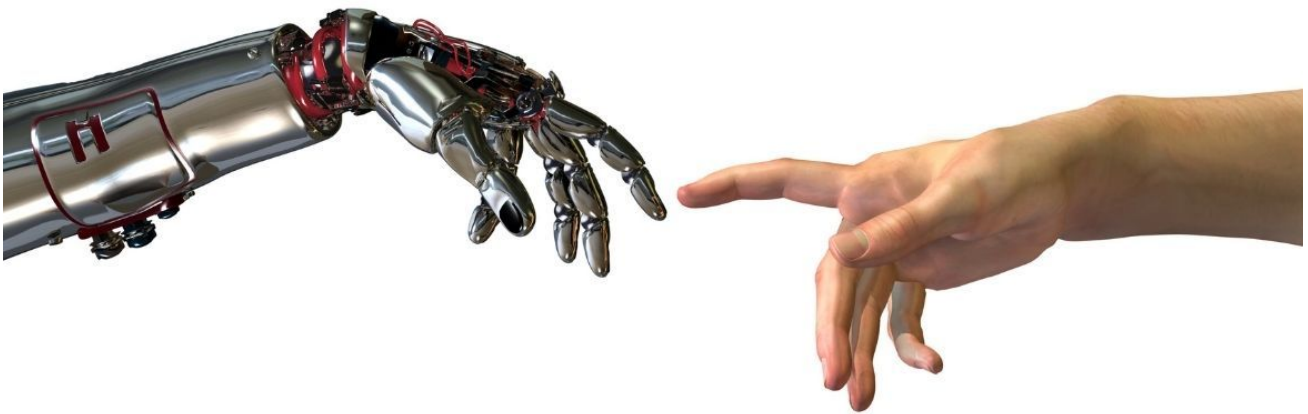
1. Understand what a human concept is
2. Explore if there are concepts in animals
3. Are concepts used during sleep, where freedom and consciousness do not intervene?
4. Simulate an artificial concept creation system

TOOLS

Computer and biology laboratory to experiment with animals

RESOURCES

- 1) Paper "What is a concept?"
https://link.springer.com/chapter/10.1007/11524564_4



2. ADDITIONAL DIMENSIONS

(The following sections add subjective information from the scientific seed, in order to inspire creatives in the creation of a SciArt work. Some of the sections may not have information if the researcher chose not to specify anything.)

SCIENTIFIC MOTIVATION

I am very interested in understanding how humans create concepts and how a machine could simulate it, as well as being able to begin to articulate in a formal or computational way, what in art has always been considered subjective.

METAPHYSICS

What is the limit of recreation of human thought?

ETHICS

If thought can be simulated, how will it change the concept of what a person is?

COLORS

Cadmium blue, English green.

AROMAS

Metallic smell.

FLAVORS

Mercury.

SOUNDS

Sound of a closed vault.