

Supre:organism, Environmental Intelligence

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Abstract

From the perspective of contemporary humanities, we argue, that *artificial intelligence* (AI) as a mainstream term describing the scientific study of intelligence demonstrated by machines, in contrast to the *natural intelligence* of humans and other animals, needs to overcome the separation of culture and nature.

Such a divide appeared relevant in the context of a culture patronising other forms of life cultivated especially within the society founded on means of production that contextualises the environment as a resource. However, through the variety of accelerative production practices, we learned how such societies fail to maintain themselves sustainably on a longer term. Furthermore, we learn how human and non-human actors depend on each other and that there is a need to redefine understanding of relations in the living environment we are part of—on Earth and in outer space.

What we learn from observing space probes and rovers travelling abiotic environments, and also human inhabiting space stations, is that despite remoteness they lack the ability to emancipate from Earth. What is so special on Earth, that all these technologies cannot get in outer space? We argue that life is not self-contained form, it's formed together with the *living environment*, or more precisely, the living environment is produced by living entities through their life [1]. Since technological thinking lacks the capacity to *produce life* we recognise ecological thinking as an alternative foundation for understanding relations between cognitive actors within the environments. Such a shift is changing focus from controlling and managing the environment to recognising existing *dependences* within the environment.

With Supre:organism project we research possible relations between abiotic conditions in outer space, organisms with capacities to *produce living environments* and computational machines to learn from these relations to increase these capacities and complexity of possible relations. The project involves

artistic residency of bio artist Antti Tenetz at ILWEG research group at ESTEC/ESA from May to August 2019 and exhibition at Kunstfort bij Vijfhuizen near Harlem in the Netherlands in September 2019.

References

[1] Ingold T.: The Perception of the Environment: Essays on Livelihood, Dwelling and Skill, Routledge; Reissue edition 2011