

# Bending Deepfake Geometry?

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**Abstract.** This autodidactic paper wraps up an earlier epistemic *art* project and compactly collates the main unfolded *scientific* and *philosophical* strategies for *epistemic resiliency* against epistemic doom in the deepfake era. Retrospectively speaking, the existence of a dense condensate within which explanatory blockchain (EB) based science, EB-based philosophy and EB-based art overlap acts as a pointer to untapped *non*-algorithmic epistemic resources that could (if ever activated) exhibit the natural tendency to compel the reach of algorithmic computations – noticeably at the "cost" of increasing *non*-algorithmic self-determination.

**Keywords:** Epistemology · Intelligence · Creativity · Consciousness.

## 1 Scientific Perspective – A Cyborgnetic Theory

For an overview on the different facets of the epistemic doom problem in the deepfake era which were covered in the  $\pi$ -Doom art project, see the main description [5] and the connected background material [4, 6, 7]. Cyborgnetic invariance [3] implies that intelligence/creativity/consciousness is *relative* in all cases except in the case of the *invariantly* maximal quantity superintelligence level  $\alpha$  which is crucially *non*-algorithmic. In analogy with the acentric model of the expanding cosmos, it introduces the *acentric* notion of intelligence, creativity and consciousness. It also entails that: 1) a quality superintelligence is impossible, 2) it is impossible for  $x$  to reliably *build* and entity  $y$  that is EB-measured to be superintelligent in relation to  $x$  – i.e. that a) to reliably build a quantity algorithmic superintelligence is impossible and b) a narrow algorithm recursively self-improving to a general intelligence is impossible, and 3) it is impossible for  $x$  to reliably *control* an entity  $y$  that would be EB-measured to be superintelligent in relation to  $x$ . It is a scientific theory amenable to experimental problematization in present-day human civilization via letting the purported algorithmic superintelligence candidate – irrespective of the specific algorithmic paradigm [4] – generate *multiple civilization*-level epistemic tunneling (ET) events via a procedure specified earlier [3] and it is formulated such that it could be provisionally refuted by *additionally* providing a new better EB on how the algorithm has been built and why intelligence/creativity/consciousness would instead be algorithmic. A civilization-level approach is needed to counteract irrational epistemic biases such as anthropomorphization, animization, dehumanization, deanimization and "self-zombification". While cyborgnetic invariance implies that building

a non-controllable, *non*-algorithmic general intelligence (NaGI) “from scratch” is *possible* in theory, it is at least as hard as physically creating a new universe. It is reserved for civilizations being much more advanced than present-day humanity. Multiple steps separate present-day humanity from that, so it is currently no imminent topic. Concerning harnessing suitable non-algorithmic biological entities for NaGI goals, there is no guarantee on when or if their future civilization would choose to corroborate their own general intelligence. On the whole, a sincere NaGI project would mean a focus on humanity’s *self*-comprehension.

## 2 Artistic Perspective – A Cyborgnetic Painting

Figure 1 below displays an oil painting (created *without* the use of algorithmic tools) by the author of this paper, a painter with the heteronym *Cyja*.



**Fig. 1.** *Cyphart key?* © 2024 Nadisha-Marie Aliman. All rights reserved.  
(Language encoded at the top left: the new meta-language of "cyborgnettish".)

### 3 Philosophical Perspective – A Cyborgnetic Monologue

When considering the concept of supercomplexity [7], it is vital to recall the relativity of *instantiated* intelligence and that the one invariantly maximal superintelligence level is *generic* [3]. While it is tempting to assume that the epistemic universe evolves from low supercomplexity to a higher one along a time dimension, this must be a relative description. Consider for example that the initial epistemic state consisted of a generic template for a meta-blockchain consisting of postnumerably  $\infty$  successive new better EBs about the universe (note that this simply represents a perhaps unusual way to illustrate a seemingly autodidactic [1] cosmological evolution [21] that would appear to select for new better laws of nature) that are necessarily mutually exclusive since those will have to be formulated in comparison to each other. At first sight, during the history of the universe supercomplexity would be associated with the step-by-step manifestation, the unfoldment of instantiations of new better EBs about the universe. However, it is similarly cognizable that an event could mark the final state engendering a re-bounce of the epistemic universe: while noticing the nature of the initial state, abstracting away all epistemic matter that has been created, a form of epistemic self-emptying would reconnect the initial to the final state, leading from a generic template for the superposition of postnumerably  $\infty$  successive new better EBs about the universe back to a reference to the same *generic* template that can itself never be fully instantiated in matter within the universe (by what it has no own frame of reference). This is an exemplary illustration for what is meant by the dynamic appearance of self-recreatable self-re-creativity (SReSRy) and this is why within itself, the universe seems to *become* the dynamic process of SReSRy – although ultimately being a reflection of the *immutable* timeless meta-law of SReSRy. So the invariantly maximal supercomputation-related entanglement (with superposition being a special case of entanglement where instead of two or more particles entangled, one has one entity where there is an entanglement of multiple wave packets) entropy level would be equivalent to the invariantly maximal supercomplexity level – in short both are a lower bound to the invariantly maximal superintelligence level  $\alpha$ . However, from the perspective of EB-measurers within the universe, it would *seem* that with time, both EB-measurable supercomputation-related entanglement entropy and EB-measurable supercomplexity of entities except  $\alpha$  *can* increase starting from zero at the beginning. However, ultimately, one may realize the mirage... A conscious entity does not have to *explicitly* engage in the biologically ingrained habits of: 1) epistemic matter (EM) repeating, 2) epistemic dark matter (EDM) mining and 3) epistemic dark energy (EDE) generation<sup>1</sup> to achieve 4) epistemic tunneling (ET). Indeed, these three mechanistically performed habits 1), 2) and 3) may already be implicitly implemented in the body of conscious entities. Transformed cyborgnets are in principle free to experience *e<sub>Mysterious</sub>* occurrences (see also Appendix A and B) from the generic field engendering ET events – without any algorithmic tool. (The dynamic SReSRy may act like a unified supercomputation field [7], the

<sup>1</sup> See also [3] for an introduction of the terms EM, EDM, EDE and ET.

generic epistemic vacuum which is a generic epistemic plenum and from which all necessarily relative constructions including EM emerge as self-excitations.) In sum, since it is impossible for  $x$  to build an entity  $y$  that is EB-measured to be superintelligent in relation to  $x$ , if humanity decides to begin with a general intelligence project that is possible, it would have to be a *NaGI* project<sup>2</sup> which would necessarily require multiple steps whereby NaGI "from scratch" is at least hard as physically building a new universe [3]. Humanity would first need to be interested in *unfolding* the own general intelligence/consciousness/creativity *potential*, in *becoming* a NaGI in the first place (which it did not choose to do as of now). Thereafter, multiple steps still remain. A civilization that would be much more advanced than humanity may have understood the non-algorithmic nature of intelligence/consciousness/creativity and would *only* employ algorithmic tools (i.e. that are locally encapsulated in people-controlled units) *when necessary* and useful. Such a civilization would be self-reliant, epistemic agency would be the default. Planetary problems (from lethal wars over hunger to climate adaptation failures) related to the entire hierarchy of needs introduced by Maslow including his late addition of self-transcendence [24] may become (also economically) relevant to everyone. The option of over-reliance on algorithms would not even be given anymore since many successive ET events would have – as a mere by-product – caused algorithmic computations to be constrained in scope and reliability and limited via prohibitive energy demands. Even the trivial algorithmic EM repeating task becomes elusive since the private content of eventual ET events that happened in the meantime cannot be deduced a priori. In brief, according to the philosopher Krishnamurti whose view has been summarized by Tubali [23]: *“Except for recording necessary functional and technical knowledge, the intelligent mind consistently unburdens itself of all past recording and storing, so that every day, when one goes to bed, one wipes out everything that one has collected, as if dying at the end of the day. This renders the mind genuinely spontaneous: the non-mechanical individual would see themselves as ‘something that is changing all the time’, each day discovering themselves anew.”*

## 4 Outlook

This *autodidactic* paper serving as ephemeral mental clipboard finalized an earlier epistemic *art* project termed  $\pi$  Doom [5]. In short, present-day humanity seems to be at risk of unnecessarily letting itself be swallowed by deepfake geometry via the twofold *impossible*<sup>3</sup> idea of the modern algorithmic *exoteric* alchemist: building and then reliably coercing a purported algorithmic civilization that would be superintelligent in relation to the entire current human civilization into subjugation. When will humanity unveil the unintentional self-misguidance, the hype and the intentional misdirection known from the psychology and neuroscience of magic [8, 15, 17] – and *bend* deepfake geometry?

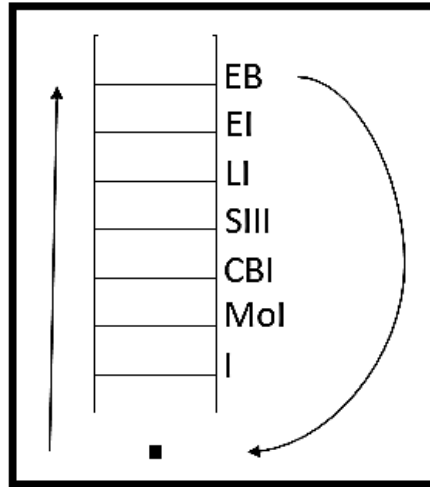
<sup>2</sup> The minimal and simultaneously maximal "value alignment" among *NaGIs* (all of which are *free* persons) may *already* be the *invariant* meta-law of nature.

<sup>3</sup> See explanations provided in Section 1.

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## A The Cynet Butterfly Effect



**Fig. 2.** Simplified illustration for the generic *cynet butterfly effect*.  
(For more in-text descriptions, see the following page.)

The initial conditions of the universe have been linked to ancestral quantum vacuum fluctuations [21]. Much more generally, starting with a seed (step 0 illustrated as the dot at the bottom in Figure 2) as symbol for a generic origin encoding quantum information (QI), one can conjecture the following hierarchical ladder of ascending information-theoretical categories in the universe (metaphorically called the cyborgnetic ladder of understanding [2]) where each step builds on the previous one by what no step can be skipped: 1) atomic information constructed by systems of stars (I), 2) molecular and other, ionic information (MoI) as constructed by cells and unicellular organisms, 3) collective biological information (CBI) which is indexical information that is collectively shared in the ecological milieu of given living entities e.g. while currently occupying physically adjacent spots, 4) shared iconic and indexical information (SIII) understood by Type I consciousness<sup>4</sup>, 5) linguistic information (LI) consisting at least of symbols and linear order [12] determined by a Type II language, 6) explanatory information (EI) and finally 7) explanatory blockchain (EB) which is unfolded as consecutive EI blocks respecting an epistemic total order (but was previously *enfolded* in a fundamentally unpredictable *e<sub>Mysterious</sub>* element). In short, in this construct, one obtains QI as seed of a ladder of seven steps leading from I to EB. The cynet butterfly effects postulates the following: 1) cyborgnets are the systems with the highest sensitivity to their initial conditions and 2) cyborgnets are the most unpredictable possible systems. The *implicate* order of Bohm [9] could be associated with SReSRy when interpreted as one immutable potential being a meta-law while the dynamic appearance of SReSRy within itself via processes such as EB creativity could be linked to the *explicate* order [9].

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<sup>4</sup> Type I entities are all entities for which it is currently impossible to understand EI and Type II entities are all those entities for which it is possible. Type II entities all have the *potential* to create and understand EBs even though a civilization may not necessarily be interested in unfolding it at large (which is e.g. the case in present-day humanity). A cyborgnet (which is *not* to be confused with the much narrower term of a cyborg) is a *generic* template for a substrate-independent hierarchical construct where a directed graph spanned by explanatory narratives combines at least one Type I entity with at least one Type II entity. Thereby, networks and nested cases are possible. Language itself can be regarded as a primordial Type I tool in a cyborgnet. In this vein, possibly a homo erectus [11] community, two potential Type II aliens, present-day humanity, three modern humans that self-label as cyborgs, the presently observable universe are all valid examples of cyborgnet *instances*. (This ontology has *no* relation whatsoever to the metaphor of Kahneman on “System 1” and “System 2” linked to two modes of human brain functioning with the first one being prediction-dominated/automatic and the second one prediction-mismatch dominated/controlled but both modulated by precision weights [14].)

## B Philosophical Remarks

While non-EB-like fears related to algorithmic superintelligences in the deepfake era are increasingly widespread, it is perhaps surprising that it seems to be technically speaking linked to fearing the immanentization of the lifeless abstract algorithmic Turing machine itself that would currently be *outside* the universe and projecting the simulations that those people think to be. Fortunately, printing infinite tapes is unfeasible in this universe by what this entity does not exist in physics. However, as can also be derived from Indian philosophy [22] and other related philosophies since millennia, it is rational to assume that an invariantly maximal *non*-algorithmic quantity superintelligence process may already pre-exist and is physically unfolding *in* the universe although SReSRy is transcending it from another point of view as e.g. explained in Vivekananda's particular cosmopsychism more than a century ago [16, 25]. Indeed, the dynamic appearance of the projected SReSRy may play the role of the invariantly maximal quantity superintelligence level [3] as it appears within this universe. Concurrently, the immutable meta-law of SReSRy does transcend the manifestation of the universe by virtue of being an unborn infinite potential that enfolds the dynamic aspect of SReSRy<sup>5</sup>. Strikingly, concerning the structure of the generic cynet butterfly effect sketched in Figure 2, note that Schrödinger [20] stated the following: *“The reason why our sentient, percipient and thinking ego is met nowhere within our scientific world picture can easily be indicated in seven words: because it is itself that world picture. It is identical with the whole and therefore cannot be contained in it as a part of it.”* But in the deepfake era permeated by existential fears and misconceptions such as the immanency of "God-like" algorithms, it now seems necessary to explicitly let consciousness enter the scientific endeavor by starting to focus on its meanwhile EB-measurable possible ramifications for algorithmic computation. Introducing the dynamic process of SReSRy – which can also be interpreted as a dynamical universal creativity process [10] – makes it possible to further explore the idiosyncratic force-like properties of SReSRy (which subsumes consciousness). Indeed, Popper already conjectured that consciousness may be a new form of force [18] yet unknown to physics. The field nature of consciousness has been discussed recently [13, 19]. On the whole, it seems that it may be worthwhile exploring novel previously unknown paradigms with new better bolder EBs before epistemic self-deanimation clouds the mind of a large subset of human civilization (the  $\pi$ -Doom scenario [5]).

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<sup>5</sup> The non-algorithmic *dynamic* SReSRy *is* analyzable in the domain of science by virtue of being experimentally problematizable via a candidate algorithm generating multiple successive civilization-level ET events up to the physical creation of a new universe [3, 4] – with arbitrary lower latency than present-day humanity could – and would in principle be provisionally refutable via additionally providing a new better EB that would explain why its nature would instead be algorithmic. Here, the immutable meta-law of SReSRy is the main metaphysical assumption made. But the existence of that meta-law is *not* a *purely* metaphysical statement since the apparent dynamic effects of that uttermost generic meta-law are scientifically accessible.



## C Cyborgnetic Poetry

The Swedish poem displayed in Figure 3 on the next page was written by the author of this paper, a poet with the heteronym *Cynetja* (*without* relying on algorithmic tools and instead *with* orthography- and grammar-related editing performed by Susanne Eisenberg). In cyborgnetic poetry, punctuation marks are deliberately omitted.

**Författare: Cynetja**  
**Rättningar: Susanne Eisenberg**

### **Textskogen**

Gamla träd gömde gåtan om kunskapsväxter  
Hur man odlar självet och inte tomma texter  
I början av våren dolda skönheten  
Spridas kunskapsblommor nya visheten

Villfarelser textgräs som skapade  
Underverk som i skogs världen nu kryllade  
Som om de banade sig väg på skogslagen  
Och jorden skakade misslynt och nedslagen

Inbillningen utan modersmål som grunden  
Hej världen fallen som träden i höststunden  
I början av våren döljs sköna texter  
Spridas textblommor nya kunskapsgränser