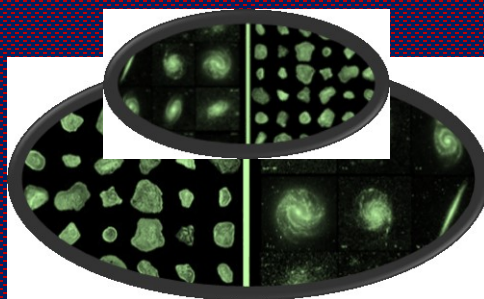


The Sameness of Existential Scaling: **The key to reproducing the universe**

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Introduction

Tools are a part of civilization. They shape what the ethnologists call “material culture”. Homo sapiens is not the only living beings to make and use tools. Some other animals do it as well; for instance, primates, and specifically, great apes use tools for hunting mammals, invertebrates, fish or for collecting honey and sometimes even for processing foods like nuts and fruits. They employ tools as well for collecting water or as weapons and shelter.

When we see the relative level of complexity and perfection of tools we spontaneously realize that there is a positive direct correlation between the degree of intelligence and the level of tools’ sophistication. We can assert it as follows:

The more intelligent is an animal, the more sophisticated are its tools.

The same rule happened to the humankind if we trace the level of complexity of its tools with its intellectual progression. While they started by scrabbling bones and stones, the human beings finished by inventing steam engine before making planes, rockets and spacecraft.

From this historical fact we can infer that, if the survival of humanity is assured, without any major reversal event, we can make more and more sophisticated tools.

A second reality is also implicitly integrated into the above fact. With the more perfected tools the mankind could explore more and more layers of material world. From using what was immediately available at the surface of the earth the men went to the deeper echelons of the inner structure of matter to explore atoms and the manipulation of subatomic particles. This is what brought humanity from utilizing wind and water on the surface level of earth as the

source of energy to the nuclear one within the atoms of enriched uranium.

Now, if we add this reality to the above historic fact, we get a new assertion: the more sophisticated are our tools, the deeper levels of the matter's inner structure can be reconnoitered.

If we imagine no end to this process - always keeping in mind that no natural or unnatural catastrophic cause stops this process- we get a simple deduction:

In the long term and in an endless process, we will have so sophisticated tools that can enable us exploring the infinite inner strata of the structure of matter.

Now, at this stage of our argument, we would like to combine this assessment with the question of the material world's scaling. When we talk about the layers of the matter's structure we are hinting at different scales of the material

configuration of the universe. To approach each scale we need a scope of specific tools, able to explore it.

As long as we have the suitable tools, we can manipulate any scale of material world, whatever is its deep micro or macro level. For instance if, one day, we have a huge functional mechanism to displace planets, we could move the planets like Mars to an appropriate distance of sun so that temperature and climatic conditions could become appropriate for the emergence of biological life or alike.

Likewise, if we have the convenient Nanotechnology we can explore the immense diversity of the inner structure of matter to shape the conditions for the emergence of life, or the transformation of subatomic particles into something else.

Everything that we can find in the macrostructure, we can find its proportional equal in the macrostructure. In the

same way, everything that we can do on whatever scale, we can also do in its completely smaller or bigger scale, provided that we have the suitable tools for that.

So, if in the scale of earth we have water, soil, forests, mountains, oceans, lakes, we have the same equivalent things in all other echelons of the material universe, provided that we can situate our technology in an appropriate scale for finding them.

What would be the same things (forests, mountains, oceans) on a galactic scale? Or, in an intergalactic scale? Or, even beyond?

What would be the same things (forests, mountains, oceans) in a subatomic scale? Or, in a quark scale? Or, even beyond?

All these suggestions will start making sense when we can regard an atom and its scale as the one of the whole visible universe. This suggests the presence of trillions of galaxies-

[alike] within an atom. In the same way of seeing a cluster of galaxies as a subparticle of an atom.

The *Infinitism* theory presents this replaceable characteristic of the measures, as the *Sameness of Existential Scaling* (SES). This latter means that whatever is the scale we deal with in the universe, it could be, proportionately, replicated at any other scale in the material existence as well. Therefore, for instance, what we consider as “observable universe”¹ can be just a tiny sub-subparticle inside a subatomic particle within an atom, belonging to molecule of an element, in a sand grain of an ocean in a earth like planet, within a solar system that is not but a tiny part of milky way alike galaxy among millions others and so on and so forth.

¹ The **observable universe** is a ball-shaped region of the universe comprising all matter that can be observed from Earth or its space-based telescopes and exploratory probes at the present time, because the electromagnetic radiation from these objects has had time to reach the Solar System and Earth since the beginning of the cosmological expansion.

How to know it?

As it's impossible to get an objective certainty on this assessment, for now, we can only conceive it conceptually through a philosophical approach. And this is what we



Grains of Sable (left) and Galaxies (right) have the same existential scales when we go through the un-dimensional comprehension of both of them. They all have the infinite structure.

wanted to do through the theory of *Infinitism*. This latter suggests that “everything is infinitely composite”. If we apply

this rule to really ‘everything’, without any exception, we obtain the pertinence of the SES. In this way, a nonentity can be an exception to the idea of having/possessing all the infinite scales of something else.

All material phenomenon is a physical setting to contain endless scales inside itself, exploitable for any being or any technology able to fit itself to each of them. As the structure of matter is infinite, we can be sure that in one of these

scales we will find the proportionate equivalent of the scale we have been dealing with currently, to having built our civilization up. This means that at a highly smaller scale we can find everything necessary for erecting a more or less similar civilization. This is true that that one will be a Nano-civilization compared to the relatively bigger one we had been creating; but why we cannot imagine that our current civilization is a super Nano-one too inside one of the subparticle of an atom, among trillions of atoms that shape one trillionth of a cell in the body of one of the billions of living beings in a much bigger scale of a civilization. Isn't it one of the reasons for which we had not been discovered yet or met by other ultra-modern and much bigger civilizations that did not have time yet to explore the billionth sub-sublevel of their body's cell? Or, maybe, just one cell of one part of one body among zillions others, where we have been accidentally created and take one of the micro element of

that cell as our “*observable universe*”? Let’s be imaginative but realistically and above all, modestly.

This kind of picturing first disturbs us and creates a denial tendency. But once we start to see the utility of its projection we can see how the SES can open new horizons in two things: 1) the way that we see and understand the universe and 2) the way we can plan and manipulate matter in the future.

Both functions are largely explained and presented in the *Infinitism* theory where we promote the breakthrough idea of seeing the existence as such. If we do so, we would be able to discover the un-dimensionality of the material existence and through this dimension-free conception, countless possibilities will offer themselves to us to be explored.

Mankind, free from the fake restrictions of dimensionality, will see an infinite number of prospects, spheres, levels and context to operate in the universe and beyond.

Infinite scales of matters are waiting for any intelligent beings, capable of fitting their technology to, to come and explore their endless resources. Nothing assures us that some other intelligent beings had not been there yet. But let's see how far we are from that technological ability that we could have developed if we had adjusted our worldview according to this dimension-free vision.

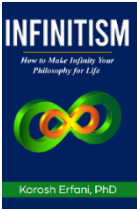
Just imagine how life would be if we knew that, thanks to our technology, we could change our material scale, from what we are to a Nano-one where, with our new existential scale we could have access to endless resources for building a prosperous and happy civilization.

We had the financial resources to invest on this kind of extra-modern technology and get the operational ability to do it. But for thousands of years we stupidly spent our resources for destroying earth and humanity through huge investments on weaponry and warfare. This happened while

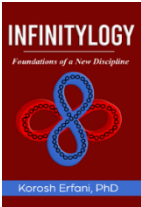
with a more intelligent choice we could have had everything for which we made so many wars. If we channel our resources towards this kind of investment we will have everything necessary for replacing entirely our planet but many other alternatives and live in peace as a happy community.

This wouldn't be redefining existence but redefining the existential scaling, from the one that matter mechanically imposed to us to the one that we intelligently impose to the matter.#

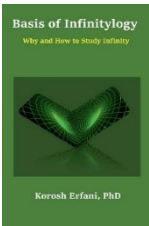
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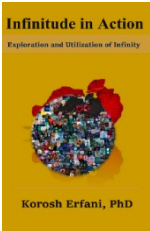
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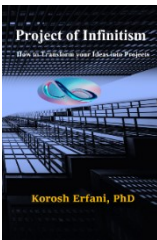
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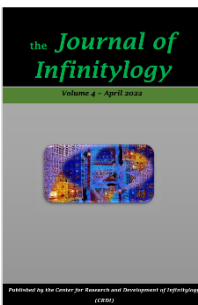
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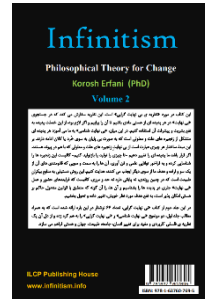


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Our books in other languages



- *Infinitism: The Philosophical theory to change*, (Book in Persian), ILCP Publishing House, 2020, 1018 pages. (possible translation in the future)



The CRDI plans translating these mentioned English books in French in the future.

Our websites



- Website on the *Center for Research and Development of Infinitylogy (CRDI)*

www.thecrdi.com

- Website on the philosophical theory of *Infinitism* and its applications.

www.infinitism.info

- Website on *Infinitylogy* as a new discipline and its establishment:

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