# The Most Complex System Ever Built

About Interconnecting Connotative Dynamic System (ICDS)

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**First Version** 



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#### Introduction:

We do underuse the knowledge we produce. This is a bad habit that had been long lasted and trivialized. Our brain has an infinite potential capacity and a finite actual ability. The volume of data that we gather during our life is huge, but we don't utilize them all. This is how our brain functions and shapes not only our mindset accordingly but also the different systems that we created to treating data.

Some say that our brain can process the equivalent of 74 GB of information per day. If it's true this will be 27 TB per year. The brain can effectively use a tiny part of this huge amount of information, even though they had been available somewhere in our cerebral set somewhere as conscious or unconscious parts of our short and long memory.

This is also what is happening to the information the humankind produced all along the history and had been accumulated as a huge amount of information here and

there. As our brain accustomed us to this tiny partial usage of its data, we got used to doing the same thing for external information that are available in the library, on the internet and so on.

The theory of *Infinitism* suggests that by an intelligent treatment system we can obtain infinite new acquaintance, and among them, solutions for many current lasting issues and crises.

The idea is to create a system that is capable

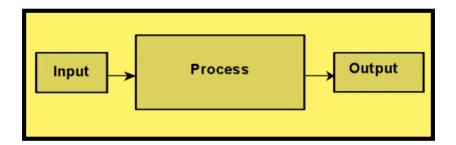
- to thoroughly integrate flows of data,
- to analytically and intelligently process it, and
- to purposefully produce new knowledge.

This system will be the most complex setting ever created by human beings. This compound whole is something far from our actual cognitive capacities; that's why the way we initiate it should follow a simple pattern that makes possible

its mastered and manageable development. For instance, Wolfram's methodology to start by simple rules and developing toward the most complex could be an inspiring course of development for this system.

The structure of the system could first be basic:

- Input
- Processing
- Output



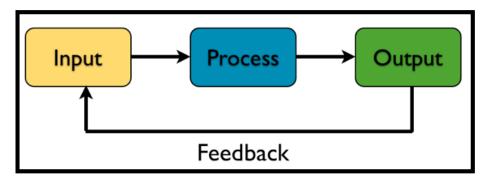
Then we can progressively develop more features for each part of the system:

 Input is infinite, composed of the automatic and manual methods.

- Processing is combinatory: automatic and manual.
- Output is presented in different forms for the sake of usability.

This should be an open-source system so that everyone could develop its components here and there, but it should be a central supervising unit to keep the coherency and consistency of the whole system.

One of the most interesting part of this idea is that the system is self-feeding as well. This means that output will act also as input data.



Challenges for this system:

CRDI- The most complex system ever built- Korosh Erfani The challenges that we face are categorized into three major sectors:

- 1. Challenges related to Input
- 2. Challenges related to Processing
- 3. Challenges related to Output

Each set of challenges should be always treated in close connection with the other two sets:

#### **Challenges related to Input**

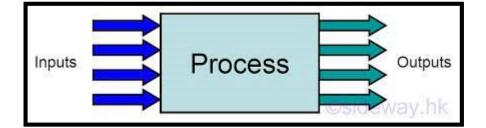
These are the points that we have to think about when it comes to input.

<u>Definition of input</u>: We call *input* any intellectual production that can be treated as data and that can add up to our basis of knowledge for intelligently generating possible solutions.

This large definition shows that the greatest amount of what human beings produced during their history should be entered in this system as information. The course would CRDI- The most complex system ever built- Korosh Erfani surely be gradual and step-by-step, according to the development of the system.

Classification of the available data and sifting them to enter the system as valid data is one of the most sensitive and challenging parts of this project. The criteria of factuality should be meticulously defined so that the system could distinguish facts and fiction. Even though the latter has a huge value in the human culture in general the system's purpose will require the usage of facts for its function.

Input will be multichannel since we need to distinguish them based on their nature: writings, visuals, audios, and others.



The entry would be as well automatic as manual since we know the quantity is beyond anything similar. But the selection of data in the automatic part should be highly and intelligently conceived so that we could be sure that it is not overwhelming the processing segment uselessly.

#### **Challenges related to Processing**

Processing is the most complex and also the brainiest part of the system. It should answer the questions like these:

- What is this data's source?
- How credible is this source?
- What kind of data it is?
- How is its relevance?
- What is its content?
- How to integrate it?
- How to use it? And so on.

CRDI- The most complex system ever built- Korosh Erfani Processing will be a combination of AI (*Artificial Intelligence and its variation like Reactive Machines, Limited Memory, Theory of Mind, Self-Aware*), Directed Algorithms created by human intervention.

The core idea of processing would be

- to treat the data,
- to find its place and classify,
- to connect it to the other data,
- to draw new conclusions,
- to measure the relevancy of the new conclusion up and
- to send the output out.

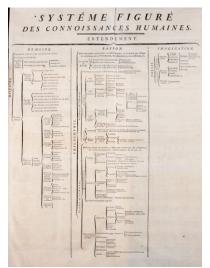
# **Challenges related to Output**

Once the upshot of the processing is ready it's the question of how to prepare it, in the most suitable format(s), and deliver it.

If we consider the self-feeding part also as an integrative part of the system we should think about how to integrate it in our list of challenges.

#### Data organization:

All along with history, there were multiple efforts to organize the human knowledge. Organizing the human knowledge has a history. Many attempts had been made in this field. <sup>1 2 3</sup>

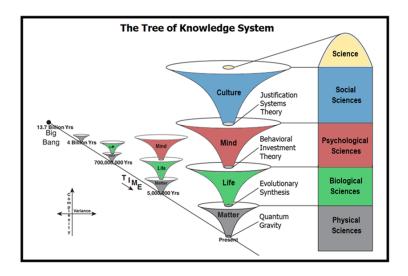


<sup>2</sup> https://quod.lib.umich.edu/d/did/did2222.0001.084/--detailed-explanation-ofthe-system-of-human-knowledge?rgn=main;view=fulltext

<sup>3</sup> https://psycnet.apa.org/buy/2009-22832-003

<sup>&</sup>lt;sup>1</sup> <u>https://en.wikipedia.org/wiki/Figurative\_system\_of\_human\_knowledge</u>

Some new attempts are also available <sup>4</sup> <sup>5</sup>



What we suggest, beyond the traditional approach, is to extend the structure of data in such a way that it could include and integrate the infinitist methodology. This latter is based on the idea of Universal Solidarity. This key concept of Infinitism states that Everything is related to Everything. The Total Relatedness suggests that our system should avoid as much as possible any artificial restriction that makes the

<sup>&</sup>lt;sup>4</sup> https://en.wikipedia.org/wiki/Tree\_of\_knowledge\_system

<sup>&</sup>lt;sup>5</sup> https://www.sciencedirect.com/topics/engineering/knowledge-structure

interrelations between information incomplete or impossible.

In order to avoid that we present here a first sketch of our suggestion for the data structuration: <sup>6</sup>

#### ALL

(Anything that exists and beyond, in case.)

## Existence

(Anything that exists; and this means anything having an

infinite composition.<sup>7</sup>)

#### Multiverse

(The universe and the possible other universes, in case.)

# The Universe

<sup>&</sup>lt;sup>6</sup> For more about the categorization of material existence see our books at the end of this paper.

<sup>&</sup>lt;sup>7</sup> See our book of *Infinitylogy (Foundation of a new discipline),* ILCP Publishing House, 2021

(The part of the existence that we could potentially

perceive through our sensations.)

#### The visible universe

(The part of the universe we could actually perceive thanks

to our sensory capacities.)

# Clusters

(The bunches of intertwined galaxies.)

# Galaxies

(A bunch of stars, interstellar gas, dust and dark matter)

# Milky Way Galaxy

(The galaxy in which the Sun is found)

# Sun

(The star our planet is one of its planets)

Earth

(The planet in which human beings are)

## Nature

(The living frame covering human beings and others)

# Society

(The collective frame of our life)

#### Man

(The human being besides other living beings)

We keep in mind that

- all these levels are vertically interconnected and
- inside each level, all the components are interrelated, and
- inside of each component all subcomponents are also interconnected, and
- These interconnections are dynamic and endless

• Each connection creates a new situation that changes the whole set.

These are some of the rules of one of the principles of Infinitism. We will try to see how we could develop this suggestion more and more.

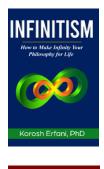
#### Conclusion

So, what we have already suggested in our previous publication as Interconnecting Connotative Dynamic System (ICDS), would be progressively completed as we have tried doing it in the current paper, and we will continue adding up more elements and ideas to it.#

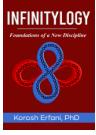
www.thecrdi.co



# **Books published so far:**



*Infinitism: How to make Infinity your philosophy for life*, ILCP Publishing House, 2021, 375 pages.



**Infinitylogy: Foundations of a New Discipline**, ILCP Publishing House, 2021, 148 pages.



**Basis of Infinitylogy: How and why to study Infinity**, ILCP Publishing House, 2021, 148 pages.



**Infinitude in Action: Exploration and Utilization of Infinity,** ILCP Publishing House, 2021, 200 pages.



**Project of Infinitism: How to Transform your Ideas into Projects,** ILCP Publishing House, 2021, 132 pages.

# The Journal of Infinitylogy



The Journal of Infinitylogy, Volume 1, January 2022, CRDI Publication

# 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.



• 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:

www.infinitylogy.com

• Website of the ILCP Publishing House

www.ilcpbook.com