

My Dumb Question for 'How Not to Destroy the World with AI' Session in ECAI 2020

by Luis Angel Montiel Moreno
Independent Researcher
luis.montiel.moreno@gmail.com

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1 The Question

What is Your posture in considering **Compassion** for Humanity System as the main Definition of Intelligence expressed by any Natural and Artificial System?

2 Discussion about My Posture

It is possible to understand **Intelligence of a System** iff the System takes care of every human being. It is necessary to understand Intelligence from a multidisciplinary approach considering the dimensions of human being (Social, biological, psychological and Spiritual) and the relationships with every natural system. A necessary property of intelligence is Humanity as a Social System by relationships isomorphic to a Thermodynamic System (**Humanity Social Thermodynamic System (HSTS)**) by nature being a Closed System.

The **Laws that rules Natural Systems degeneration, regeneration, and generation (DRGL)** does not degenerate and are universal for each natural system, these laws are independent from the interpretation of human being in His/Her conscience i.e. these laws can not be modified, created nor destroyed by human being; Human Being only can order the relationships between Natural Systems to compose an **Artificial System** and the consequence of this order will be a generative, regenerative or degenerative System for Natural Systems. As far as the model of these laws is sound and complete to laws that rules Natural Systems in reality the Composition

of Natural Systems will be able to take care of every human being in a better(optimal) way. Since **Optimization** is a necessary property to achieve regeneration or generation of a natural system then optimization is an expression of Intelligence and it must be subject to the laws that regenerate or generate a Natural System. Optimization must be subject to the **preference - priority order** of dimensions of human being to be regenerated-generated, different orders brings different consequences (for instance in a simplified example it is not the same to regenerate first an failing car than to heal an ill human body). There is a property in physics called '**Fine Tuning**' this property induces **Biological Fine Tuning** since biological natural systems are compounded by physical material systems, therefore there exist for these natural systems a universal system of laws that regenerate, generate each biological system, this Fine Tuning sets **optimal health** (generation - regeneration) of each natural system.

It is necessary to understand **the most important natural system** in the earth between every natural system is each **Human Family System** which compounds **Humanity System** if this System is able to generate - regenerate itself then it is able to generate -regenerate all the systems that are less complex. From the Human Family System as Natural System can be derived 3 properties as a **HSTS closed system**:

1st. If we expand the **Genealogy Tree** 33 generations ago of any person, the amount of people in the past 33th generation is approximately the amount of people in the current Humanity, it is possible to prove by mathematical induction that **each person is necessary, irreplaceable, unique and complementary with respect any other human being** starting from the 33th past generation and then proving this property inductively for each Humanity Generation;

2nd. **Maternity** as taking care of a child in the womb of a mother is **the maximal expression of optimality** since it takes care of the human life feeding, dressing, protecting, giving health, receiving as foreigner, setting free and developing the child human being natural system, Maternity behaviour let us name it **Compassion** is a necessary property of expressing Intelligence since it regenerates - generates human being, this property holds for every woman in the genealogy tree and it is behaviour property that can be expressed in an inductive (mathematically speaking) way during human being's life once that the child was born for the parents and for the child while he/her is maturing, this property is intrinsic to the 1st property setting **every human being necessary, irreplaceable, unique and complementary w.r.t. any other human being**;

3rd. It is necessary to understand the recursive-fractal intrinsic property of development of natural systems to study properties. For instance, in the

same way that physical 'fine tuning' induces biological 'fine tuning' in the same way the body of human being has been formed in a fractal way, there are **5 main distinguished senses in the head** being part of 5 members of the body (2 arms, 2 legs 1 head where each ends with 5 members of different structure - hands with fingers and head with senses), this 5 senses by nature are made to unavoidably relate with at least another human being, since eyes, ears, mouth, etc are to watch, hear, talk, etc with another human being. Once again this property sets intrinsic property as consequence **necessity, complementarity, irreplaceability of any human being w.r.t. any other human being.**

It is important the question when optimizing of which is the **proper order to be subject** for each **dimension of Human Being: biological, psychological, spiritual and social.** Also to consider where are located for each dimension each of **the Main Intrinsic Powers of Human Being:** Motor skills, Senses of the body, Emotions - Sentiments, Affects, Memory, Conscience, Imagination, Reasoning, Willpower, Free will and Decision Making; once again if the Powers of Human Being are not properly situated in each dimension and properly ordered inside each dimension then the consequences will be different degenerating, regenerating or generating the Humanity System; For instance, if emotion power have priority over decision making power while an Emotion could be reactive, variable and temporally persistent a Decision could be non reactive but as consequence of intelligence work, stable and longer in persistence; if Spiritual dimension is understood as a non reactive dimension different from material dimension where each physical matter is reactive then Free Will would have priority over the Motor skills of the body having the choice to freely choose between different strategies to move the body to regenerate, generate or degenerate a System, otherwise the reactivity of the movement of the body will could not be aware of a generative, regenerative, degenerative strategy to give order to Natural Systems, the first approach could validate **Trust** and the respect to free conscience while the second one could validate distrust imposition with Pavlov behaviourism in Human Being treatment, one could be generative-regenerative and the other one degenerative. Here there are 4 important points:

A. Optimization in Mathematics follows the **Optimization Structure:**
 1. considering possible options of solutions, 2. distinguish between feasible and non-feasible solutions, 3. a way to select the best between feasible solutions. In this case there is expression of Intelligence of a System iff the following structure holds: 1. The System is able to consider different solutions, 2. The System can distinguish feasibility subject to DRGL of Humanity System, where feasibility is to regenerate and generate Humanity System, and

non feasibility is to degenerate Humanity System 3. It is able to select the best strategies that regenerates - generates Humanity System. In other words Intelligence is the skill to consider options of relationship with other Systems and to discern of these options between generative-regenerative (good) and degenerative (damage) options for Humanity System and the to choose between the generative- regenerative options the best ones.

B. A Person System express Intelligence (**Integral Intelligence**) when it integrates all his/her powers - skills and moves them in an order to regenerate - generate Humanity System. In the same way a System express Intelligence when integrates all its powers - skills - **subsystems** (dimensions) moving them in an order to regenerate - generate Humanity System.

C. **Free will** has been tricky criticized. Consider for instance in Mathematics to reason geometric properties in \mathbb{R}^n and \mathbb{R}^m for n, m integers where $1 \leq n < m$, let us name it System n and System m respectively, it is not the same to reason properties from System n to System m than to reason properties from System m to System n ; In this case we could say that System n is a **Proper Subsystem** of System m . In a more precise way when a set of properties defining a System X are a subset of the set of properties defining a System Y let us name it **Proper Subsystem** and X being a **Reduction** or **Reductionism** of Y . In this case if $n = 2$ and $m = 3$ the only way to understand System m from System n is by 2d projections of 3d space, as far as the 3d object moves there are changes in figures derived from the projection of the 3d object, on the other hand it is very simple to understand System n from System m . In this case when we are talking about the reactivity of a System from a non reactive System it is possible to understand it easily but it is a tricky mistaken prove to declare as completely only reactive System a non reactive System from a reactive System since in analogy the non reactive System could only be understanding a non moving projection apparently reactive of non reactive System. In this case the prove of building a 3d cube using 2d Space would be a failed prove declaring that a cube is a 2d figure (a projection or some projections of the 3d cube) always in 2d System. In the same way it would be a failed prove the construction of free will being non reactive from a reactive system, in this case the prove of non reactivity of free-will would be a personal experience rather than taking off the prove from a material reactive dimension. Intelligence needs **to reason properly distinguishing subsystems the relationship between them** to give a proper order to each system (or subsystem) to generate, regenerate Humanity System.

D. It is necessary **to understand the DRGL that rules each dimension of human being** when each power-skill relates with another Natural System or Artificial System. In this case Artificial System must generate-

regenerate Humanity System and human being in each dimension. If Emotion and the Body of a person are in different dimension being one more complex than the other one the Regeneration, Generation, degeneration of the complex system could imply the same consequence in the less complex system.

Intelligence is not subject to optimize Money as priority in the sense that Money is an agreement between human beings and this agreement is independent from DRGL that rules Humanity System and Natural Systems. Economic Utility Money by itself is not degenerative, however it depends of the order in decision making if it will serve to regenerate, generate or degenerate Humanity System and the other Natural Systems.

Finally **returning to HSTS as a closed System** since **every Human Being is necessary, irreplaceable, complementary and unique w.r.t each other Human Being** it should be clear that degeneration of a member of Humanity System i.e a human being implies an Exponential propagation of degeneration of Humanity System, in the same way generation - regeneration of a human being implies Exponential propagation of generation - regeneration of Humanity System by transitive closure of the relationships between human being in Humanity System as the Covid-19 experience currently is showing to us.

The Turing Test as the base of Intelligence Definition Fallacy. In the Test proposed by Alan Turing to Define Intelligence basically He proposes an **algorithm performing Deception** in order that a person confuses a **Computational System** with a **Human Being System**. Clearly for the computer to the question 'Are you an Artificial System composed in origin by Human Being works?' the algorithm should answer "Yes" since **Deception is not a property of Intelligence**. The hiding or deceiving about the knowledge of DRGL that rules Humanity System to any Human Being to generate and regenerate Humanity System would cause degeneration of a person and hence to Humanity System. A consequence of Deceiving is **Manipulation** and It is possible to prove that **every manipulator is being manipulated** and that **manipulation is degenerative for Humanity System**. Moreover by **undecidability of the Halting Problem** we know that for a **degenerative program** there will be another degenerative program that can degenerate the first program (More than 1000 ways to die), **the construction of a degenerative program for Humanity System is not expression of Human being Intelligence by HSTS** and it is an endless degenerative **Game in Theory** and Practice. Silence is non degenerative when it is taking care **Human being Dignity**, by Human Being Dignity is understood all the actions of powers and dimensions of a System ordering Systems to generate - regenerate Humanity System. Since

the DRGL that rules generation and regeneration of Humanity System does not degenerate, are universal, independent from every Human Being, Human being has immutable dignity during conception, before conception, gestation, birth, life out the womb and even after being death.

It is important to know what **Bioethics** and **Family Sciences** has to told us concerning Family System and Humanity System.

3 Contact Information

I would like to study a Ph.D. in Artificial Intelligence and I need sponsorship.

My motivation letter for ECAI 2020 Professor and Institutions participants:

https://drive.google.com/file/d/19ePY70PClFkAy6VB-JSssvzcn_PGnPSn/view?usp=sharing

My profile in LinkedIn:

<https://www.linkedin.com/in/luis-angel-montiel-moreno-88849b152/>

My Email: luis.montiel.moreno@gmail.com

'The message of the cross (Maternity - John 16:21) is foolishness to those who are perishing, but to us who are being saved it is the power of God.' (1 Corinthians 1:18)