

Unit 9: Vocabulary



Image Source: YouTube, "[An Introduction to Human Rights](#)" by [English with Jag](#).


UHR Blockchain & Economics

15.08.2023

Ubiquitous

Overview

UHR refers to Universal Human Rights. Human Rights are considered to be 'god given' inalienable rights, that due to the efforts of others decades ago, were thereby articulated in writing as a consequence of their efforts. It was said then, that Human Rights were not created, just articulated. As must be done again, now. The Digital Transformation does not yet feature leadership in the field of furnishing support for human rights to be put into the hands of the people. Consequently, these works now therefore seek to address that issue.



The objectives sought to be described in this paper, seeks to address the underlying problems associated with wide-spread digital slavery by seeking to create systems that can support 'obligation free' online knowledge apparatus; as required to support human rights.

The concept of 'obligation free' online resources, denotes an idea whereby the creator of useful work is able to be fairly compensated for their useful contributions. This in-turn requires a series of systems and methodologies to support economic structures whereby,

- There is an ability to determine 'fair value' in relation to the cost of resources required to create the derivatives that are in-turn employed online.
- There is a way to contribute towards the compensatory 'moral debt' reasonably owed. This may include a multiplier of 'fair wages' if the work is not paid upfront; but should not require fees, rents or royalties in perpetuity ancillary to material costs.
- Once the full amount of the determined value is compensated, contributions cease and the resource is made available using differentiated 'commons' based licensing.

And that;

- That there be disincentives and/or penalties applied in relation to 'bad behaviour'; and that, the characteristics of the derivatives must have moral integrity and/or be of honourable quality, which thereby requires an array of additional requirements.
- That misuse or abuse of these systems be defined in a way that can reasonably support the protection of human rights; including accessible lawful remedy and/or punishment for abuse.

These systems are not intended to be applied upon 'commercial' & 'for profit' forms of work and related derivatives that have no meaningful relationship to the necessary support for human rights related needs of biosphere entities and related sociosphere systems.

Rather, these efforts are squarely targeting the problem that due to the alternative focused efforts of many historically; the means to independently go about doing something good, is too often laden with punishment and harms whilst simultaneously being devoid of means for reasonable compensation and/or economic rationalisation of the use of resources (including human labour); which thereby acts to engender disincentives for seeking to do good work for the betterment of others, thereby encouraging growth of leadership based upon the capacities of others who excel skillfully by doing the opposite.

Goals

1. The World Health Organisation is deploying 'Digital Identity'. These works seek to support the underpinning economic supports needed to deliver a 'medicinal earth' strategy that can in-turn act to support the use of AI & ICT to transformationally improve the availability and use of knowledge, in relation to natural 'health' systems.
2. These systems should be designed to support 'Human Centric AI' solutions that are not blockchain based; but rather, use a variety of open-standards to support freedom of thought alongside other human rights considerations both as defined historically; and, as may be transformationally improved upon for use with AI & ICT.
3. The elected solution should not be centrally controlled via any particular entity; rather, that the use of STEM employs technology with social mechanisms to support 'cyber security' related requirements, to deliver cyber-physical security outcomes.
4. That the solution be shown and deployed in a manner that employs calculations relating to the consumption of energy associated to or with, transactions; and that, the solution defined to be 'fit for purpose' seeks to ensure the minimal floor-price of a 'knowledge transaction' via calculated means that takes into account all forms of resources associated with the fulfilment of that transaction. (ie: inc. energy use).
5. That the solution provides open-protocols to support the development of a marketplace and/or industries of different providers, who are expected to conform to particular 'shared values'; but may thereby produce different & differentiated offerings for users. This seeks to address differences and creativity associated with life; whilst protecting against the potential threats of tactical exploits by (an) actor(s).

Specifications: Design Notes

Whilst it is the purpose of this document to elicit inputs to support the process of defining a specification, there are an array of underlying components that are sought to be considered as part of the broader specifications; that in-turn act to support a broader vision of 'human centric' artificial intelligence related ecosystems.

The broader implication relates to the employed definition of 'human identity'; which is most often, not well understood. The underlying requirements for users, whilst the informatics systems are intended to provide insights in relation to the use of herbs, foods and other natural agents that may be used medicinally; will in-turn collect a significant amount of personal information, that leads to particular outcomes, far more broadly. The biggest differences between these works and alternatives, is about how these systems work; and how, that engenders different outcomes as a consequence of specified designs.

Values Credentials

The systems employs machine readable, modified versions of UN Human Rights instruments and other well known 'values credentials'. The modifications required specifically seek to shift the focus of stewardship of human rights from 'the state' to the human beings specifically involved, who are thereby equipped to use these precedent values based instruments in connection with their dealings, associatively with contract law.

Whilst the use of these instruments is not 'mandated', the ability for natural agents to make informed decisions based upon whether or not the values stated in those instruments are sought to be supported by foreign agents seeking to engage with them; becomes a choice.

This choice cannot be brought about without support for values credentials or in circumstances whereby the use of technology for these purposes continues to be absent.

Domain Names & IPv6

In-order to support the means for people to manage their own 'social web', it is believed that the best approach makes use of personally owned domain names; which then acts to support various related techniques that depend upon the use of a domain name & IPv6.

W3C - RWW / Solid / Credentials / Semantic Web

Whilst the underlying methods are considered complex; and is not otherwise broadly well defined here, there is an ecosystem of parts that has been developed via w3c as to ensure support for decentralised AI systems, that can in-turn be assembled to support 'Human Centric AI'; as is a label associated to a particular design, that i have been involved in making. In some areas, these designs are my own; in others, the work was created by others who are most often generally unknown; which is all part of a complex pool of IP.

Complex AI

There's an array of complex 'AI' functions that are not merely graph nor solely vector based.

Schemaorg; "Web of Data" & Web Payments

Whilst I consider the area somewhat boring - it is important to note, that the ecosystem works do in-fact act to support 'web payments' methodologies that are in-turn designed to function with much of the online commerce systems that employ semantic web tooling, online today. In this way, many online 'stores' will already have a lot of the underlying technical requirements to support discovery and integration built into their websites.

Requirements

I. Funding Development

These works are needed to support the growth & development of works to support the realisation of the 'medicinal earth' concept; which likely requires hundreds of thousands of hours of good, honourable and expert contributions to bring about.

II. Design Roadmap

The solution should have a roadmap that can be reliably referred to and supported.

It is understood that not everything can be done in a day and that quality work takes time, often genius and most certainly therein also - creative excellence. Whilst also understanding that the process has a meaningful relationship to context & purpose.

These efforts may well result in the development of a next generation platform on the internet; that could or should also result in the advancement and realisation of the moral goals set-out by many who have sought to create the future of the Web.

III. Production Tools

This solution & ecosystem development is considered to be adversarial to the expressly illustrated as implemented solutions defined by *some* existing platforms. It is not considered good or useful to depend upon their products to develop an alternative; and, concerns exist as to whether their efforts seek to ensure that any alternative is in-effect, not allowed, as some may characterise the effect of hostile activity that cannot be easily understood due to designs and an absence of options to better illustrate the ideological characteristics of platforms.

As such; the means to produce somewhat basic alternatives is considered necessarily important. These systems should focus on accountability rather than obscurity; and there's an array of considerations associated to how, what, why and the methodology for development and employment - at a general level. Whilst some objectives may be made 'too hard' at early stages, alternatives that share similar forms of structures ideologically can be employed to achieve progressive goals. Where this is the case, solutions should support migration where required.

Options Analysis

Firstly, I am not interested in using ethereum based solutions at all. The parties involved in Ethereum have established works that were started sometime ago in relation to ID2020; and have since developed to support alternative ideologies, that sadly includes the popularisation of the term 'web3' often also now associated with the concept of 'Web 3.0', whilst the ecosystems do not relate to the old concept of 'web 3.0' or the social web; based upon world-wide-web related works and efforts, by many, now confused & IMO; Abused.

The advancement of these works have profound relationships with the global commercialisation of mRNA 'precision medicine' technology & Pharmaceutical Industry works; that are considered to be a competitor whose interests do not align with this work.

The alternative methodology sought to be brought about that that would use both an appropriate blockchain solution as well as complimentary DLT & "W3C" protocols

IV. Avalanche, NYM and/or Alternative?

The paper: "Snowflake to Avalanche: A Novel Metastable Consensus Protocol Family for Cryptocurrencies"¹ appears to outline updates to 'bitcoin', which appears to be usefully interesting. One method for getting started, might be to find a currency that presently uses this more advanced crypto-technology and fully back it; which, if the project is successful, would result in the value of that 'coin' going up & providing ROI for early supporters and/or developers. Another option may be to support a range of different protocols and/or solutions; however this is yet to be explored.

Another project that has many interesting qualities is that of nym² whereby the focus is on privacy, which may well have a meaningful relationship with safety.

V. GIT, IPFS & Complimentary protocols

Not everything needs to be entirely dependent upon a blockchain, of any-kind. There are various requirements and opportunities whereby GIT, IPFS and similar provide usefully supportive tooling for the advancement & delivery of outcomes.

Part of what is sought to be undertaken and achieved is a good and proper governance systems evaluation; as to ensure there's appropriate means to resolve disputes & harms.

How, this can be best achieved is presently unknown; but is part of the analysis process

¹ <https://ipfs.io/ipfs/QmUy4jh5mGNZvLkjjes1RWM4YuvJh5o2FYopNPVYwrRVGV>

² <https://nymtech.net/>

AI related considerations

VI. Permanent AI Logic Identifiers

Whether it be through the use of IPFS, GIT or other methods to apply identifiers in relation to blockchain transactions; the means to assert logical identifiers in relation to knowledge artefacts is considered to be a requirement. The controls on these identifiers are in-effect employed through the employment of the identifiers.

So, if many users depend upon the use of a particular identifier, it becomes widely distributed; if no-one uses the identifier, then it becomes less supported and potentially thereafter also, removed and no-longer functional (due to absence of usefulness). There are other characteristics thought important, but not now noted.

VII. Local AI Agents

Whilst the term 'AI' is muddy, the underlying meaning is that users should be able to employ a software agent locally without having their every thought surveilled.

This is particularly important for interactions relating to personal data; use-cases include those associated with people in positions of public trust, seeking to figure out how to address the consequences of illegal drug-taking or similarly harming their own health and wellbeing. There are various considerations of importance.

However, fundamentally the infrastructure sought to be brought about should be moreover focused upon the accountability / reliability of 'commons' informatics as to support human rights by ensuring that knowledge is reliably available & uplifted.

VIII. Design of AI Agents

Whilst again noting that the term 'AI' is muddy; there's an array of expressly stated 'declarative semantics' and/or logic; that forms constituencies to broader processes that then may in-turn use weighting or other more 'fuzzy' AI methodologies & models. The means for the STEM realities to be expressly stated is integral to the function of systems that support reliable insights, which in-turn relates to work.

IX. Human Centric AI

This has a specified meaning; yet to be fully disclosed, due to bad actors. 'Medicinal Earth' solution works to advance efforts & requires UHR Blockchain tooling.