3. ARTIFICIAL INTELLIGENCE AND A NEW CORNERSTONE FOR AUTHORSHIP

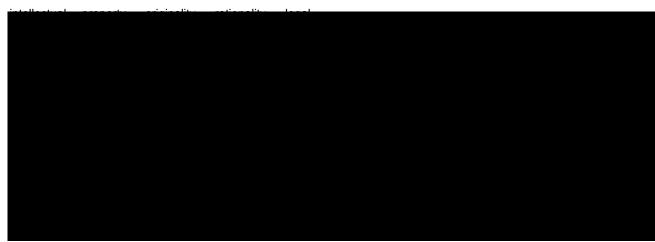
Fredy Sánchez Merino

'What is the heart but spring; and the nerves but somany strings; and the joints, but many wheels - Thomas Hobbes, 1651

ABSTRACT

The 20th century's digital technological revolutionsha transformed our world in ways once thought almos impossible. What was once deemed mere science fiction, has now become reality. Of these developments, one of the most controversial is that of the growing dependence on robots and Atificial Intelligence (AI). Al development has led whic non-human to а scenario in entities generatescientific, artistic, and industrial outputs that meet the requirements to be protected assellectual property (IP). However, it also faces various thetical and practical obstacles hindering such protection. This paper aims to address the question of the role of art created by AI; and to offer certain theoretical solutions that, in the future, could resolve the legal problem that represents the creation of art by an AI entty.

Keywords: artificial intelligence, copyright, -eitizen,



Parliament, for example, recently proposed a motion with recommendations for the civil regulation of the aptly named 'electronic citizens' The proposal is complex, requiring the consonance of other branches of the law. This is a result of the impact of AI on discrete branches of law such as the law of persons in particular legal personality, legal capacity and civil liability, among others. Its proposal presents an opportunity to define areas in IP law that have yet to be regulated?

The purpose of this paper is to provide clarity on the 'Algenerated work' dilemma. It will start with some basic concepts of artificial intelligence for a better understanding of the concept of 'authoring'. The

the existenceof errors in the

AI), it must 'actually' think (havea strong AI). In a weak AI, authorship belongs to the machine's programmer, rather than the machine itself, as the creation of work is simply a realized expression

weak AI,

- self-learning ability, from experience and by interaction(optional criterion);
- that it hasat leasta minor physical support,

legal regulation, but within the current legal parameters and given the separation between moral and pecuniary rights, it is a possible solution.

Theprimaryargumentsagainstgrantinglegalpersonalityto artificial intelligencesystemsare all anthropocentricbased. These arguments revolve around the idea of robots not being human, lacking a soul, or not showing feelings, interests, desires, intentionality, etc. They are all derived from social constructs created by humans, and therefore, are modifiable. It is not the purpose of this paperto exhaust the doctrinal positions regarding the granting of legal

personality to robots. https://doi.org/10.1020/em/ptul-Tow 0.57 Tc 0Tcd ()Tj[(d)(ea)0(1)-0a 0 Tc 0Ttdw(1.432 00674)-46TIPTw 7,i5(per)ptul-Tow 0.57 Tc 0Tcd ()Tj[

rights to an agent that is not capable of exercisingor defending them? Because by making authorship attributable to 'someone,' the work is prevented from falling into the public domain. Should rights be granted to these entities, three questions follow:

- Oncethe agent is granted rights, is it going to enforce them?
- 2. Is it necessaryto enforce authorship rights in order to regardsuchworks as worthy?
- 3. What does this have to do with the ownership of an Al generatedwork?

In the civil system, moral rights contain two kinds of prerogatives:positive, which allows the owner to use the rights as it seesfit; and negativeor ius prohibendi, which allows the author to keep third parties from infringement of exclusive rights.

The enforcement of moral rights more often than not is displayed in its negative form because of the ubiquitous character of intangible assets. If no infringement is perpetrated, then there is no need for the enforcement the moral rights. Does this mean that moral rights depend on their exercise to exist? Not at all. The separation of the right's existence and its exercise is supported by scholar Georg Jellinek, and his theory on Al authorship. This theory argues that the ownership and exercise of these rights should rest on different persons. Such a premise is the clearest example that moral rights do not depend on their exercise to exist. They arise once the work is created can remain dormant without being used even once and are there whenever they are needed, outliving both the author and the work itself.

Agents should not have to exercise moral rights only because they exist. But even if they do, there is a possibility

34

animal, lacking legal standing. However, animal scannot be compared to rational agents, because the laited 3.46 pod [(t)A0 0 Td166Tw T84 pod 6 .32 ()57 (i rationality comprises some of the traits scientists have deemed to be essential in the human mental process that distinguishest from other creatures.

10.005 Tw-2.44 (T) of 6.4334 (b.6) 150 (21)-71 (1) 162 (13) 174 (10) 174 (

Hristov's solution is based on the premise of inevitably granting authorship to human 1. -0.005 Tc 0.005 0 733 T--11.3 (r)-2.7ient

work, the better it reflects the personality of the author, and as a result, the attribute of individuality is more

elements that cannot be added, because the agent lacks the required ability to do so.

 and despiteall the flaws this solution poses, it takes a step towards the regulation of such matters. 59

However, the current state of laws is still not sufficiently completeto protect Al creations. A commoneffort must be made to create specialized aws on the matter. Situations like the attribution of legal personhood to rational agents, subsequent granting of rights relating to authorship and economic exploitation must be regulated with necessary precision. Until then, the legal and economic vacuum surrounding such creations will continue to exist, restraining the development of the Al industry as a result of a lack of economic motivation.

7. CRITICALSPECTISERIVE BROMTHEAUTHORSHIBY AI

Attributing authorship to a rational agent involves addressingprofound philosophical questions that would shakethe foundations of longstanding egal systems Doing so implies a deep reform of various legal situations adjacent to the issue of authorship of a work. Some of those situations include the current approach to the legal regulation of the subjectin some legal systems: economic exploitation and moral rights exercise pluration of exclusive rights for rational agents; and a considerable amount of ethical issues and fundamental rights related to the acknowledgment of authorship to AI systems. The next section of the paper will address ome of those issues and their immediate legal consequences.

a) We will beginby tacklingthe 'derivativework' schoolof thought which has been developed within the copyright system. It aims to solve the legal regulation of authorship in rational agents by using the current state of law. First, there is no chance for an Al generated work to be considered, a priori, a derivative work, because derivative works are those derived from preexisting works, not 'made' by a preexisting work. It would be oxymoronic to state that Al generated work is derivative and that Al per se is pre-

existingwork becauseby doing so, we would be unfairly denying the AI authorship and granting it to the programmer. This implies that the AI cannot be the author and the work itself at the same time.

When making a derivative work of art, the primal work remainsunaltered while a new work is created. Therefore, derivativenessin works of art revolve around origin, not originality. A derivativework can be originalor not, though never originative. In this sense, originality in an AI system artwork may be questioned because of its content, but never because it was created by an AI, which in turn was created by a human.

On the other hand, the copyright system uses a double standard for originality. This adds another level of complexity, because f Algenerated works were to be taken as derivatives, then an even higher, yet extremely subjective, standard of originality would be applied. It has already been explained, how the concept of originality should be applied differently to Al systems, so no extra standard should be added in order to grant authorshipor conferring copyright protection, at least not if the purpose is to 'save' Al creations from the public domain.

b) Asfor the duration of economic rights, Berne's standard should apply. The division of

⁵⁹ U.K. Copyright, Designs, and Patents Act 1988.

⁶⁰ Berne Convention for the Protection of Literary and Artistic Works, Sept. 9, 1886, as revised at Paris on July1271 and amended in 1979 S. Treaty Dbtp. 9927 (1986).

As to moral rights, given their intuito personaecharacter and the fact that they are virtually perpetual, only their exercisecan be transferred to third parties. This works within the scenario where a rational agent lacking the capabilities to the

- Authorship can only be granted when the AI system createsa work of art containingfeatures intended but not controlled by the programmer.
- Sinceoriginality in its formal concept is unachievable by rational agents because they lack intention, we propose to substitute intention with rationality, a feature that machines not only possess, but that is their modus operandi.
- Al generatedworks of art should not be considereda derivative work, for that would be contradictory regardingthe recognition of authorshiptowards AI.
- 10. An analogyas to the duration of pecuniaryrights for legalentities can be applied when it comesto rational agents that generated rights which are held by third parties.
- 11. Ethical aspects must be carefully taken into consideration when contemplating to grant legal personhoods rational agents.

BIBLIOGRAPHY

 $\label{ligence} A costaR, 'Artificial Intelligence and Authorship Rights' \\ (2012) Harvard JOLT$

http://jolt.law.harvard.edu/digest/copyright/artificial intelligenceand-authorship-rights>accessed 1 May 2019

Al in the UK: Ready, Willing and Able?, Collated Written Evidence Volume: Future Advocacy- Written Evidence (AIC0121) 16 April 2018, HL2017-19, pg. 569

AmsterdamJWT, 'The Next Rembrandt' (ING, 24 January 2018) https://www.nextrembrandt.com/ accessed 5 May 2019

'Artificial IntelligencePolicy: A PrimerAnd Roadmap (2017) 51 UCDavis JILP399

Calo R, 'Robots In American Law' (2016) University of Washington School of Law, Research Paper No. 201604

<(2 () Tj 0PddC349eTd)/[2]0-06070B014044042002/73P0463(d)5983w01.880.5005 (T.0045) T3v462d657 ((e))43.63 ((e)