

ARTIFICIAL INTELLIGENT, INTELLECTUAL PROPERTY AND EMERGING LEGAL CHALLENGES

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Artificial Intelligence (AI) is rapidly transforming the landscape of innovation, creativity, and economic development, thereby posing significant challenges to the traditional framework of Intellectual Property (IP) law. As AI systems increasingly generate original works, inventions, and designs with minimal human intervention, fundamental questions arise regarding authorship, ownership, and accountability. Conventional IP regimes—comprising copyright, patents, and trademarks—are primarily designed to recognize and protect human creators. However, the emergence of AI-generated outputs disrupts this human-centric approach, creating ambiguity about whether AI can be considered a legal creator or merely a tool used by humans.

One of the major challenges lies in determining the ownership of AI-generated works. In the absence of clear legal recognition of AI as an author or inventor, rights are often attributed to developers, users, or organizations, leading to inconsistencies across jurisdictions. Additionally, AI systems rely heavily on large datasets, raising concerns related to copyright infringement, data privacy, and unauthorized use of protected materials during training processes. The issue of originality also becomes complex, as AI-generated content may replicate or derive from pre-existing works.

Furthermore, patent law faces difficulties in recognizing AI-driven inventions, particularly in cases where human contribution is minimal. Questions of liability also emerge when AI systems cause harm or infringe upon existing IP rights. Globally, policymakers and legal institutions are attempting to address these concerns, but a uniform legal framework is still lacking.

This paper highlights the urgent need for adaptive legal reforms that balance technological advancement with the protection of intellectual property rights. It emphasizes the importance of developing clear guidelines on authorship, ownership, and accountability, while ensuring ethical and responsible use of AI in the evolving digital ecosystem.