

Artificial Intelligence as Creator: A Survey on the Impact of AI on Art and Literary Expression

Madyson Spencer¹, Jaquelin Beahan²

^{1,2}Australian National University, Canberra, Australia

madysonspencer@outlook.com¹, jaquelinbeahan@protonmail.com²

Abstract

Artificial Intelligence (AI) has rapidly evolved from a technical tool to an active agent in creative fields, profoundly influencing the domains of art and literature. Once limited to mechanistic and repetitive tasks, AI now contributes to imaginative and expressive processes traditionally considered uniquely human. This paper surveys the multifaceted impact of AI as a creative entity, focusing on how it redefines authorship, aesthetic value, and the creative process itself in the context of visual arts and literary production. Recent developments in generative models such as GPT, DALL·E, Midjourney, and other AI systems have opened new frontiers for storytelling, image generation, and poetic composition. These systems challenge the boundaries between machine and human creativity by producing artworks and texts that mimic, complement, or even surpass traditional modes of expression. In literature, AI-generated poetry, novels, and scripts are reshaping ideas of originality and authorship, while in visual arts, algorithmic creativity is producing abstract art, photorealistic images, and experimental designs at scale. This transformation raises critical questions about ownership, intention, and the role of the artist in the age of automation. This paper explores the applications, implications, and critiques of AI-generated art and literature, drawing on examples from contemporary digital culture, publishing platforms, and artistic collaborations. It considers the philosophical, ethical, and cultural debates surrounding AI's creative autonomy and its impact on human identity, emotion, and imagination. Additionally, it investigates how artists, writers, and audiences perceive and interact with AI as co-creators. By surveying both the technological mechanisms and the socio-cultural reception of AI-generated creativity, the paper aims to provide a balanced understanding of how AI is transforming the cultural landscape. Ultimately, it examines whether AI can truly "create" in a human sense, or whether its outputs reflect new forms of collaboration and interpretation in a digitally augmented world.

Keywords: Artificial Intelligence, Creativity, AI Art, Literary Expression, Generative Models, Digital Culture, Authorship, Human-Machine Collaboration, Algorithmic Creativity, Cultural Production.

1. Introduction

AI has emerged as a transformative force not only in industries such as healthcare, finance, and manufacturing but also in the creative fields of art and literature (Boden, 2016). Historically, creativity has been seen as a distinctively human trait one rooted in emotion, consciousness, and subjective experience. However, with the development of sophisticated AI models capable of generating original paintings, music, poetry, and prose, this long-held belief is being challenged (Doherty, 2019; Elgammal et al., 2017). Machines are no longer just tools; they are becoming co-creators, collaborators, and even autonomous producers of cultural artifacts.

The rise of generative models such as OpenAI's GPT series, Google's DeepDream, and image synthesis tools like DALL·E and Midjourney has shown how machines can analyze large datasets of human creative work and generate new content that often appears indistinguishable from human-made pieces. AI-written novels, algorithmically composed symphonies, and machine-generated art exhibitions are now part of global discourse (Hutson, 2021). These developments push us to rethink the role of authorship, the meaning of originality, and the essence of creativity itself.

In literature, AI has been employed to compose poetry, generate fictional narratives, and even complete unfinished literary works. Similarly, in the visual arts, AI systems are producing paintings that are auctioned in prestigious galleries and digital spaces. These creations, while fascinating, also raise profound ethical and philosophical questions. Who owns AI-generated content? Can machines possess creative intent? How do audiences relate to work created by non-human agents? What happens to traditional artists and writers in this evolving landscape? (O'Neil, 2017; Peters, 2021)

Understanding AI's impact on artistic and literary expression requires a multidisciplinary approach, combining insights from computer science, cultural studies, ethics, and aesthetics. This paper aims to provide a comprehensive survey of how AI is shaping the creative world.

Section 2 explores the technological foundations behind AI-generated creativity. Section 3 surveys AI's impact on artistic and literary production, using real-world examples. Section 4 critically examines the philosophical, cultural, and ethical challenges posed by AI as a creator. Section 5 concludes with reflections on the future of human creativity in an AI-augmented world.

2. Technological Foundations of AI Creativity

The emergence of AI-generated creativity is rooted in significant advancements in machine learning, natural language processing (NLP), and computer vision. These technologies enable machines not only to analyze existing human-created content but also to generate new artistic and literary outputs that often appear original and compelling. Understanding these foundations is essential to appreciating the capabilities and limitations of AI in the creative domain.

At the core of AI creativity are artificial neural networks, particularly deep learning models that simulate the human brain's ability to recognize patterns and learn from data (Gershman, 2019). These models are trained on large datasets of existing artworks, texts, or images and learn to identify stylistic features, language structures, and semantic relationships. Among these, generative models especially Generative Adversarial Networks (GANs) and transformer-based architectures have played a pivotal role.

GANs, introduced by (Goodfellow et al. 2014), consist of two competing networks: a generator that creates new data and a discriminator that evaluates its realism. This competition results in outputs such as hyper-realistic images or stylized artworks. GANs have been used to produce AI-generated portraits, abstract art, and even fashion designs (Elgammal et al., 2017). On the other hand,

transformer models like OpenAI's GPT (Generative Pre-trained Transformer) series and Google's BERT are designed for sequential data like language. These models have enabled machines to write essays, compose poetry, and generate coherent narratives based on prompts (Achiam, J., 2023; Jones, Luger and Jones, 2023).

In the visual arts, tools like DALL-E and Midjourney use text-to-image synthesis to transform written descriptions into detailed images, while DeepDream and StyleGAN explore visual surrealism and mimic established artistic styles. In literature, AI systems trained on classical and contemporary texts can emulate an author's voice, complete stories, or suggest narrative developments. These technologies reflect a major shift from rule-based automation to adaptive and generative intelligence (Floridi, 2019).

The creative capabilities of AI systems depend heavily on the quality and scope of the training data. Large, diverse datasets allow for more nuanced and stylistically varied outputs, but also raise issues of bias, copyright, and cultural representation. Moreover, while AI can replicate patterns and styles, it lacks consciousness, emotion, and intentionality factors often considered essential to human creativity.

Despite these limitations, the increasing sophistication of AI tools suggests a growing ability to engage in what might be considered a form of "synthetic imagination." AI's capacity to remix, recombine, and reinterpret vast bodies of human knowledge and culture allows it to participate in creative processes in ways previously unimaginable. As such, these technological foundations set the stage for a deeper exploration of AI's practical impact on artistic and literary expression.

3. AI in Art and Literary Expression

The integration of Artificial Intelligence into the realms of art and literature has sparked both enthusiasm and debate. As AI systems continue to produce compelling works across diverse genres and styles, the line between human and machine creativity grows increasingly blurred. This section surveys AI's influence in two key domains visual arts and literary expression by exploring prominent tools, examples, and creative collaborations that demonstrate how machines are becoming creators in their own right.

3.1. AI in Visual Arts

AI-generated visual art has gained global recognition through exhibitions, online galleries, and commercial markets. Tools such as DALL-E, Midjourney, and Artbreeder allow users to input textual prompts that the system transforms into intricate visual pieces. These systems rely on trained models that have absorbed the aesthetic patterns of thousands of artworks, enabling them to produce new images that reflect various genres, moods, and artistic techniques.

One of the most well-known examples is the portrait *Edmond de Belamy*, created using a Generative Adversarial Network (GAN) by the French art collective Obvious. The artwork was sold at Christie's auction house for over \$400,000 in 2018, marking a milestone for AI in the art market (Cohn, 2018). Similarly, digital platforms such as Runway ML and DeepArt allow emerging artists to experiment with AI tools to create stylized illustrations, abstract visuals, and even video art.

In addition to generating static images, AI is being used in interactive art installations and augmented reality experiences, where it responds to viewers' movements or emotions. These innovations invite audiences to engage with AI not just as a tool, but as a dynamic creative partner (Boden, 2016). Despite the excitement, critics often argue that such creations lack true artistic intent or emotional depth, raising important questions about the value and authenticity of AI art.

3.2. AI in Literary Expression

AI's role in literature is equally transformative. Language models like GPT-3 and GPT-4 have demonstrated the ability to write short stories, poems, essays, and even screenplays. These outputs

are often grammatically correct, contextually coherent, and stylistically sophisticated, blurring the boundary between authored and automated content (Jones, Luger and Jones, 2023).

Writers are increasingly using AI as a collaborative partner rather than a replacement. For instance, author Robin Sloan used an early version of GPT to co-write parts of his fiction, describing the interaction as “a kind of creative jazz” (Hutson, 2021). Similarly, experimental writing platforms such as Sudowrite and Narrative Device assist authors with plot development, dialogue generation, and stylistic editing, offering suggestions in real-time.

AI-generated poetry has become a genre of its own, with platforms like PoetAI and Verse by Verse (developed by Google) generating verses inspired by classical poets. In some cases, AI has been used to complete unfinished literary works such as composing endings to Kafka’s stories or generating sequels to famous novels. While some critics view this as mere mimicry, others argue that it opens new possibilities for reimagining classic literature and extending creative narratives.

Nevertheless, concerns about authorship, originality, and emotional resonance persist. Many literary critics emphasize that while AI can replicate style and structure, it does not possess lived experience or consciousness two elements often considered vital to powerful storytelling. Yet, as audiences become more accustomed to hybrid works, the definition of literature itself may expand to accommodate machine-generated texts.

3.3. Human-AI Creative Collaborations

Rather than replacing human creativity, many projects show how AI can augment and inspire human expression. Artists and writers are leveraging AI to overcome creative blocks, explore new aesthetic styles, and experiment with language in novel ways. This collaborative model often termed “co-creativity” positions AI not as an author, but as a tool of discovery and expansion (Boden, 2016).

Projects like The Next Rembrandt, which used AI to generate a painting in the style of Rembrandt, or the AI-assisted playwriting experiments by the Royal Shakespeare Company, show how AI is being embedded in creative workflows. These collaborations highlight the evolving relationship between technology and the arts, one in which AI acts as an extension of human imagination rather than its rival (Lagroue, 2025).

4. Philosophical, Cultural, and Ethical Challenges

As AI increasingly takes on the role of a creative agent, it raises complex philosophical, cultural, and ethical questions. While its outputs are often impressive, the underlying issues surrounding authorship, originality, intent, and accountability prompt a deeper examination of what it means to create and who or what can rightfully be called a creator.

4.1. Rethinking Authorship and Originality

One of the central debates revolves around the concept of authorship. Traditional definitions assume that a creator is a conscious being capable of expressing personal vision, experience, and intent. AI, however, operates without consciousness or emotion, and its outputs are generated based on patterns learned from existing human-made content (Floridi, 2019). This raises the question: can AI-generated works be truly original?

Some argue that since AI merely remixes data it has been trained on, it cannot produce original work in the true sense (O’Neil, 2017). Others suggest that originality lies in the *use* of the tool by the human who chooses prompts, curates outputs, and contextualizes the work. In this view, creativity becomes a collaborative act between human and machine. Still, legal and academic frameworks continue to grapple with whether AI systems can be recognized as authors, and whether their works are eligible for copyright protection.

4.2. Cultural Impacts and Representation

AI-generated creativity also raises concerns about cultural representation and bias. Since AI systems learn from data created by humans, they inherit the biases, stereotypes, and exclusions present in those datasets. This can lead to the replication of dominant cultural norms while marginalizing or misrepresenting less-represented voices.

For instance, AI image generators have been shown to reproduce Eurocentric beauty standards, while language models may struggle to capture the nuances of Indigenous or minority literatures (Peters, 2021). These limitations prompt concerns about cultural homogenization and the erasure of diverse identities in creative expression. Addressing this requires greater transparency in training data and more inclusive design in AI development.

4.3. Ethical Use and Misuse

AI's ability to generate convincing and compelling creative content also introduces ethical dilemmas related to misuse. Deepfake technologies, for example, can be used to fabricate artistic performances, fictional dialogues, or unauthorized imitations of living artists' styles and voices (Elgammal et al., 2017). These practices not only threaten artistic integrity but also raise risks of deception, manipulation, and intellectual theft.

Moreover, the ease and speed with which AI can produce creative outputs raises questions about fair competition. Artists, illustrators, and writers face challenges in maintaining relevance and value in markets flooded with low-cost AI-generated alternatives. This has led to growing calls for protective regulation, ethical guidelines, and clearer distinctions between human and machine-made content.

4.4. Human Emotion, Meaning, and Intent

Perhaps the most enduring question is whether machines can truly create art in the human sense. Art and literature are not merely outputs; they are expressions of emotion, lived experience, cultural memory, and personal identity. AI lacks consciousness, empathy, and purpose; it does not feel grief, joy, or inspiration. While it can imitate these qualities, it cannot experience or understand them.

This has led many scholars to view AI not as a replacement for human creativity, but as a reflective surface—a tool that shows us what we value in art, what we consider meaningful, and what makes us human (Gershman, 2019). In this sense, AI challenges us to redefine creativity not as a fixed trait, but as a dynamic relationship between humans, tools, and ideas.

5. Conclusion and Future Directions

The rise of Artificial Intelligence as a creative agent marks a significant turning point in the evolution of human expression. From generating poetry and novels to producing paintings and immersive digital experiences, AI is no longer confined to the background of the creative process; it is now actively shaping the content and aesthetics of contemporary culture. As we have explored, this transformation challenges long-held assumptions about creativity, originality, and authorship, forcing us to reconsider what it means to be an artist or a writer in the digital age. While AI's capabilities continue to advance rapidly, it is important to recognize the fundamental differences between human and machine creativity. AI can process, analyze, and synthesize vast amounts of information at incredible speeds, yet it lacks the personal emotion, lived experience, and intentionality that give human art and literature their depth and meaning. The tension between imitation and authenticity will likely remain at the heart of debates surrounding AI-generated works. Looking forward, the most promising future lies not in replacing human creators but in enhancing human creativity through collaboration. As artists and writers increasingly adopt AI tools in their workflows, a new model of co-creativity is emerging—one that blends human intuition with machine precision. This hybrid approach opens exciting possibilities for artistic experimentation, cross-cultural engagement, and democratized access to creative tools.

However, as this field continues to grow, there is an urgent need for ethical standards, transparent design, and inclusive training datasets to prevent cultural biases and misuse. Educational institutions, cultural organizations, and policymakers must work together to support artists and protect creative rights while fostering innovation in the AI space. Ultimately, the question is not whether AI can be creative, but how we choose to interpret and integrate its contributions. As technology and culture converge, we are entering an era where creativity is no longer defined by the creator alone, but by the collaborative and interpretive processes that unfold between humans and intelligent machines.

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