

Academic Integrity in Digital Media Art Education in the AI Era

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Abstract: In the dynamic landscape of digital media arts education, particularly under the pervasive influence of Artificial Intelligence (AI) Era, the maintenance of academic integrity emerges as a critical concern. This research delves into the nuanced definition, diverse manifestations, and illustrative case studies elucidating academic integrity within the domain of digital media arts. Additionally, it scrutinizes the potential repercussions of AI technology on the intricate fabric of academic integrity within this field. Employing rigorous survey methodologies and insightful case studies, the research unveils a discernible uptick in instances of academic non-integrity in the dynamic realm of digital media arts, necessitating prompt and strategic responses. Crucially, the study emphasizes the foundational role of academic integrity in shaping students into proficient practitioners, characterized by an unwavering commitment to ethical standards. By cultivating a dedication to academic ethics, the research advocates for the resilient growth of the digital media arts field amid ever-evolving technological paradigms, ensuring an unwavering commitment to integrity in academia.

Keywords: Academic Integrity; Art and Design Education; AI Era; Digital Media Art

1. Definition of Academic Integrity in Art and Design Education

1.1 Definition of Academic Integrity

In the realm of art and design education, academic integrity is defined by a set of principles that guide students in their learning, creative, and research endeavors. These principles revolve around the core values of honesty, integrity, respect for intellectual property, acknowledgment of others' efforts,

and adherence to ethical standards in the academic domain. Upholding academic integrity demands that students refrain from employing improper means, such as plagiarism, intellectual theft, or cheating, to attain grades or honors. By doing so, students contribute to the authenticity and moral character of their academic achievements, fostering an environment of trust and credibility within the academic community.

1.2 Requirements for Academic Integrity

Academic integrity requirements serve as foundational principles that creators must adhere to when undertaking various tasks, ensuring the authenticity of their work. These principles underscore the significance of independent thinking and active exploration, emphasizing the preservation of one's originality and autonomy. In addition, academic integrity necessitates that students, when involved in academic discourse, collaborative research, and knowledge sharing, accurately cite others' viewpoints, materials, and research findings, transparently indicating their sources. This practice acts as a safeguard against knowledge misuse and infringement, promoting ethical engagement in academic endeavors.

1.3 Importance of Academic Integrity

Academic integrity plays an indispensable role in art and design education. Adhering to the principles of academic integrity ensures the credibility of students' academic achievements while fostering their capacity for independent thinking, innovation, and a strong sense of professional ethics [1]. These principles not only advance the field of academic research but also contribute to the development of related disciplines. Therefore, educational institutions and educators should intensify efforts in educating and guiding students on matters of academic integrity. Simultaneously, they should establish

comprehensive systems for academic integrity to enhance students' awareness and moral character, ultimately shaping them into qualified professionals in the field of art and design.

2. Approaches to Academic Dishonesty in Art and Design Education

In the realm of art and design education, it is essential to bolster the cultivation and advocacy of academic integrity. Educators and students alike need guidance in establishing the correct ethical values within academia. This involves a rigorous commitment to academic standards and legal regulations, coupled with the encouragement of innovation and originality. Such measures are indispensable to uphold the integrity of academic research and creative works, ensuring the preservation of intellectual property rights and fostering an environment of trust and credibility.

2.1 Direct Plagiarism and Intellectual Theft

Direct plagiarism and intellectual theft emerge prominently in various academic endeavors, especially during the completion of assignments, papers, or projects. This unethical practice involves the failure to provide proper citations or references, leading to the direct copying of another individual's work or perspectives. This form of academic dishonesty not only constitutes a severe infringement upon the intellectual property rights of the original author but also signifies a fundamental disregard for the ethical standards that govern scholarly pursuits. Addressing and preventing direct plagiarism is crucial for maintaining the integrity of academic work and upholding the principles of fairness, honesty, and respect within the academic community.

2.2 Plagiarism in Artistic Works

This form of academic misconduct is particularly evident in design works, where inadequate citation or referencing results in the direct reproduction of another person's design concepts, style, or elements. It represents a significant breach of academic integrity, given that innovation and originality are fundamental criteria for evaluating artistic design works and the creator's skills and talents. Plagiarism in design not only

compromises the authenticity of the work but also denies creators the chance to showcase their distinctive style and creative capabilities. Addressing and preventing such instances is crucial for preserving the integrity of design education and fostering an environment that values creativity, honesty, and ethical conduct.

2.3 Data Manipulation

Within the domain of art and design research, the collection and analysis of diverse data forms, including market research data or user study data, are common practices. However, engaging in the intentional manipulation or fabrication of such data to bolster personal viewpoints or simulate specific results is deemed a serious breach of academic integrity. The credibility of research heavily relies on the authenticity and accuracy of data, rendering any act of data manipulation unacceptable and subject to severe condemnation. Upholding the principles of honesty and reliability in data reporting is paramount in ensuring the trustworthiness of art and design research, fostering a scholarly environment that values the veracity of findings and ethical research practices.

2.4 Collaborative Deception

Within collaborative team projects, where members work collectively on creative endeavors or projects, intentional concealment of one's contributions or falsely attributing others' accomplishments as one's own constitutes academic dishonesty. The essence of collaborative teamwork relies on principles of fairness, transparency, and mutual respect. Any form of deception or misrepresentation undermines the spirit of such collaborative efforts, jeopardizing the trust and integrity essential for effective teamwork. Upholding honesty and acknowledging individual contributions within a team is vital not only for the ethical conduct of academic projects but also for fostering a culture of integrity and trust among team members.

2.5 Unauthorized Use of Others' Works

In the realm of art and design, creators often find the need to incorporate materials created by others, including images, music, text, or video segments. Unauthorized utilization of such works without the consent of copyright

holders or without compliance with relevant legal provisions constitutes academic dishonesty. Respecting intellectual property rights and adhering to copyright laws is imperative when integrating the creations of others into one's own work. This commitment to ethical practices ensures the safeguarding of creators' rights and fosters an environment of integrity within the academic community.

3. Case Studies of Academic Misconduct in Art and Design Education

3.1 Case 1: Tokyo Olympics Emblem Design Plagiarism Dispute

The emblem design for the Tokyo Olympics became a highly debated case. On July 24, 2015, the Tokyo Organizing Committee for the 2020 Olympic and Paralympic Games revealed the emblem, attributed to Japanese designer Kenjiro Sano. The design, a simple geometric composition forming a "T," faced subsequent scrutiny for its uncanny resemblance to a logo crafted by Belgian artist Olivier Debie for a local theater. Debie initiated legal action against the Tokyo Organizing Committee, demanding an end to the alleged plagiarism. On September 1, 2015, amidst the plagiarism controversy, the Tokyo Organizing Committee officially declared the abandonment of Kenjiro Sano's "creation". This led to the swift removal of promotional posters featuring the emblem from Tokyo's streets overnight.

3.2 Case 2: Xi'an Academy of Fine Arts Accusations of Plagiarism in Award-Winning Work by Young Teacher Fan *

In 2018, a controversy surfaced on the internet, accusing a young teacher at Xi'an Academy of Fine Arts, Fan *, of plagiarism in his acclaimed artworks, "New Ideas II" and "Notetalking." These allegations centered around similarities with the works of British illustrator Russell Cobb. Despite Fan's "Open Air Cinema National Museum" receiving the prestigious Red Dot Award in Germany, suspicions of plagiarism arose. A comparative analysis unveiled striking resemblances, with Fan essentially reproducing Cobb's 2011 pieces, making only minor adjustments to color shading. Fan presented this as an original creation in international competitions,

garnering substantial acclaim. In 2016, Fan's works even secured Silver and Bronze in the Professional Group of the "Silk Road Spirit - First Western International Design Biennial." Responding earnestly, Xi'an Academy of Fine Arts held a special meeting by the Academic Committee, conclusively confirming Fan Yu's act of plagiarism. Consequently, Fan * faced severe repercussions, including the revocation of his associate professor qualifications, rescinding of all related rewards and prizes, termination of employment, and the cancellation of his labor contract with Xi'an Academy of Fine Arts.

3.3 Case 3: Doctoral Thesis Plagiarism Leads to Degree

Revocation at Nanjing University of the Arts On November 6, 2020, Nanjing University of the Arts announced the results of its investigation into the plagiarism incident involving the doctoral thesis of Guo **. The inquiry revealed multiple instances of plagiarism and intellectual theft in Guo **'s doctoral thesis, "The Garden World of Qi Baojia," and a journal article titled "Research on the Shaoxing Shidao Gardens—Using the Yangshan Stone Buddha Temple as an Example," constituting a severe violation. Following relevant regulations and after deliberation and voting by the degree assessment committee, the decision was made to revoke Guo Yannu's Doctor of Arts degree and invalidate his doctoral degree certificate. These cases emphasize the critical importance of research integrity, the adherence to academic ethics and morals, and the unwavering stance against academic misconduct. They highlight the necessity of conducting research with a rigorous and steadfast spirit, fostering a strong commitment to academic ethics.

4. The Rapid Advancement of High Technology and Its Potential Impact on Academic Integrity in Digital Media Arts Education in the Ai Era

The rapid advancement of high technology, notably the current progress in AI-Generated Content (AIGC), presents a myriad of challenges and implications for academic integrity within the realm of digital media arts, leading to an increased prevalence of plagiarism-related issues. In the AI Era, it

becomes paramount to strengthen academic ethics and foster copyright awareness, establishing pertinent policies and standards to uphold academic integrity. This proactive approach is essential to safeguarding the credibility of academic achievements and fostering an environment conducive to the robust development of the digital media arts field.

4.1 Issues of Originality

In the landscape of digital media arts education, the advent of AIGC technologies introduces challenges, notably in the realm of originality. AIGC, empowered by algorithms, facilitates the generation of diverse content forms, spanning images, audio, and videos. However, the potential consequence is a reliance by students on AIGC technology, potentially diminishing their independent creative thinking and originality. This issue becomes a poignant challenge to academic integrity, as authentic creativity should inherently stem from individual ideation and original thought processes. Addressing this challenge requires a concerted effort to instill the importance of personal creative contributions and innovative thinking within the academic framework.

4.2 Plagiarism and Copyright Infringement

In the dynamic realm of rapidly advancing high technology, the facile replication and dissemination of digital media have become increasingly pronounced. AIGC technologies, characterized by their capacity to generate extensive content through algorithms, may inadvertently incorporate works created by others. The utilization of AIGC-generated content without proper attribution or the unauthorized use of pre-existing creations raises profound concerns related to plagiarism and copyright infringement [2]. This escalation in the risk of academic works being exposed to piracy and plagiarism significantly undermines the foundational principles of academic integrity within the digital media arts domain, necessitating vigilant measures to uphold ethical standards and preserve the credibility of academic endeavors.

4.3 Dissemination of False Information and Fabricated Works

The advancement of high technology in the digital media arts field has streamlined the creation and manipulation of digital content, presenting both opportunities and challenges. While technology enhances efficiency and innovation, it also introduces the risk of disseminating false information and the proliferation of fabricated works. The ease with which digital media can be created and altered raises concerns about the authenticity of academic works. This potential for misinformation poses a significant threat to academic integrity, emphasizing the need for ethical guidelines and vigilant oversight to ensure the credibility of information disseminated within the digital media arts domain. Academic institutions must address these challenges to maintain the trustworthiness of scholarly endeavors in the face of technological evolution.

4.4 Application of Intelligent Algorithms

The pervasive application of intelligent algorithms in the digital media field signifies a transformative influence in content creation and design, driven by high technology. These algorithms, although instrumental in augmenting efficiency, raise concerns regarding their potential role in automated content generation and information manipulation. The use of intelligent algorithms introduces a nuanced dimension to the discourse on originality and academic integrity, as the line between human-generated and algorithmically produced works becomes blurred. Striking a balance between harnessing the benefits of these algorithms for creative expression and maintaining the authenticity of academic endeavors is crucial to upholding the ethical standards in digital media arts education. Institutions must navigate these complexities to ensure a harmonious integration of intelligent algorithms without compromising academic integrity.

4.5 Data Security and Privacy Concerns

The exponential growth of high technology has ushered in a new era of extensive data collection and analysis in the realm of digital media arts. While this presents unprecedented opportunities for innovation and research, it concurrently raises substantial challenges related to data security and privacy. The

protection of personal information and the security of creative works are integral components of upholding academic integrity in the digital age. The intricate interplay between technological advancements and ethical considerations necessitates a vigilant approach in addressing data security and privacy concerns. Educational institutions must prioritize the implementation of robust measures to ensure the confidentiality and integrity of both personal information and artistic creations, thereby fostering a conducive environment for ethical and innovative academic pursuits in the digital media arts field.

4.6 Ethical Concerns

The rapid advancement of AIGC technology has given rise to a myriad of ethical concerns within the digital media arts domain. Issues such as the propagation of misleading information, infringement of privacy, and potential user deception have become focal points of discussion. In the utilization of AIGC technology, a conscientious evaluation of the accuracy and legality of the generated content is imperative to mitigate potential violations of academic ethics and integrity. Striking a delicate balance between technological innovation and ethical responsibility is paramount in navigating the evolving landscape of digital media arts education. Educators and institutions play a pivotal role in guiding students to employ AIGC technology judiciously, emphasizing ethical considerations to uphold academic integrity and ensure the responsible use of cutting-edge technologies.

4.7 Changing Assessment Criteria

The advent of AIGC technology is reshaping the landscape of assessment criteria in the realm of digital media arts education. Traditional benchmarks centered on evaluating students' independent creative capabilities and artistic expressions now face the challenge of accommodating the incorporation of AIGC-generated content. As AIGC technology becomes more prevalent, there is a need for a nuanced adjustment in assessment standards. This evolution is essential to distinguish between students' authentic creations stemming from personal ingenuity and their adeptness in utilizing

AIGC-generated materials. Educators and institutions must engage in a thoughtful recalibration of assessment protocols, ensuring that evaluation criteria align with the dynamic nature of technology-driven creative processes. This recalibration facilitates a comprehensive and equitable evaluation framework that fosters both independent creativity and adept utilization of cutting-edge tools in the digital media arts discipline.

In conclusion, as we navigate the evolving landscape of technology, educational institutions and educators bear the responsibility of adapting to these advancements. This involves the periodic updating of evaluation standards and teaching methodologies to align with the changing dynamics introduced by AIGC technology. Guiding students in the ethical utilization of AIGC technology becomes paramount, emphasizing the significance of academic integrity. The commitment to fostering an environment where students not only harness the benefits of technological progress but also uphold ethical standards ensures the continued growth and ethical development of the digital media arts field. Through this approach, educational institutions play a crucial role in shaping the future generation of artists and designers who contribute ethically and innovatively to the academic and professional spheres.

5. Leveraging AI High Technology for Professional Teaching in Art and Design Education

In the AI Era, the utilization of advanced technology revolutionizes digital media arts education, offering an array of diverse learning methods and creative tools. This dynamic integration inspires students' creativity, fuels their imagination, and elevates their professional skills, fostering a competitive edge in the ever-evolving landscape of the digital arts.

5.1 Virtual Reality (VR) and Augmented Reality (AR)

The incorporation of Virtual Reality (VR) and Augmented Reality (AR) technology in digital media arts education signifies a transformative leap. According to [3], these technologies enable students to dive into art pieces or simulated scenarios, facilitating a

heightened level of intuition and immersion within the learning process. The dynamic utilization of VR and AR empowers students to participate in virtual creations and hands-on exercises, fostering exploration across a spectrum of diverse art forms and styles. This technological integration not only enhances the educational experience but also opens avenues for unparalleled creativity and engagement.

5.2 Interactive Classroom Tools

The seamless integration of interactive classroom tools, including whiteboards, projectors, touchscreen devices, and complementary interactive teaching software, heralds a transformative era for educational environments. These sophisticated tools collectively contribute to the evolution of dynamic and engaging classrooms. As per contemporary educational practices, the incorporation of these technologies aims to foster an interactive and participatory learning atmosphere. Through intuitive gestures, drawing capabilities, and text input features, students are empowered to actively participate in classroom interactions. This not only elevates their level of involvement but also cultivates a proactive approach to learning. The utilization of such cutting-edge technology not only represents a paradigm shift in traditional teaching methods but also ensures that students become active contributors to the learning process, propelling them towards a more interactive and enriched educational experience.

5.3 Digital Art Creation Tools

The integration of commonly used digital tools and industry software, including image editing software, animation production software, and audio editing software, is essential for facilitating students' digital art creation [4]. Particularly noteworthy are the various online collaborative creation software platforms that enhance students' capabilities. These tools not only expand the creative horizons for students but also enable them to efficiently materialize their ideas. By leveraging these resources, students can express themselves artistically with greater ease, contributing to a more enriched and diversified learning experience in the realm of digital media arts. The incorporation of such

digital art creation tools empowers students to navigate the complexities of contemporary artistic expression.

5.4 Online Resources and Platforms

Harnessing the power of the internet and various online platforms proves to be instrumental in providing students with an extensive array of digital art resources and learning opportunities. Engaging in activities such as watching online instructional videos, participating in virtual discussions, and accessing digital art libraries [5] allows students to broaden their artistic horizons and deepen their knowledge in the field of digital media arts. The accessibility of online resources fosters a dynamic learning environment, enabling students to stay abreast of the latest trends, techniques, and perspectives within the rapidly evolving landscape of digital art. Online platforms serve as invaluable hubs for collaborative endeavors, connecting students with a global community of digital artists and educators, further enriching their educational experience.

5.5 Data Visualization and Infographics

Given the inherent connection between the digital media arts field and data, the integration of high-tech data visualization and infographic tools emerges as a pivotal aspect of enhancing students' comprehension and expression of abstract data information [6]. These advanced tools empower students to transform complex datasets into visually compelling graphics, facilitating a more accessible and engaging exploration of information. The incorporation of data visualization techniques not only aligns with contemporary trends in digital media but also equips students with essential skills for effective communication in a data-driven society. The utilization of infographics adds a creative dimension to the presentation of information, fostering a symbiotic relationship between data and artistic expression within the realm of digital media arts education.

In summary, leveraging high technology for teaching in digital media arts education is a crucial direction in modern education, especially in the AI Era. The integration of high-tech devices and tools offers students a diverse and enriching learning experience, ultimately leading to improved learning

outcomes, heightened creative abilities, and enhanced innovation capabilities. Embracing this technological shift not only aligns with the contemporary landscape of digital media arts but also prepares students for the evolving demands of the field. As educators and institutions adapt to these advancements, students are better equipped to navigate the intersection of technology and artistic expression, fostering a future generation of digital media arts professionals with a solid foundation in both technology and creativity.

6. Conclusion

Academic integrity serves as a foundational quality and moral compass throughout one's academic and professional journey. Within the realm of art and design education, the significance of academic integrity cannot be overstated. This research has brought to light various manifestations of academic dishonesty, ranging from plagiarism and intellectual theft to art plagiarism, data manipulation, and the unauthorized use of others' work. These actions not only violate intellectual property rights but also inflict severe damage on the reputation and credibility of the academic community.

In the face of rapid technological advancement, the field of digital media arts encounters new challenges, including concerns related to originality, false information, and forgery. In this era, it is imperative to staunchly defend academic integrity, ensuring that research and creations are genuine, honest, and ethically sound. Only through a commitment to honesty and innovation can enduring values be established, future art and design professionals nurtured, and the healthy progression of academic research promoted.

Educational institutions and educators bear the responsibility of guiding students in developing sound academic ethics, intensifying efforts to cultivate and propagate

academic integrity. Academic integrity stands as the bedrock, guiding light, and shared partner in shaping the future. In this era where ethics and technology coalesce, let us collectively pledge to uphold academic integrity, providing robust moral support for the creation and dissemination of knowledge, and collaboratively crafting a more honest and enriching academic world.

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