Original Article ISSN (Online): 2582-7472

ART CURATION ALGORITHMS: MACHINE LEARNING IN MUSEUM EDUCATION

Pooja Goel 1 , Bhavuk Samrat 2 , Bhanu Juneja 3 , Rutu Bhatt 4 , Yashoda L 5 , Yashoda L 5 , Dr. Soumitra Das 6

- Associate Professor, School of Business Management, Noida International University 203201, India
- ² Chitkara Centre for Research and Development, Chitkara University, Himachal Pradesh, Solan, 174103, India
- ³ Centre of Research Impact and Outcome, Chitkara University, Rajpura- 140417, Punjab, India
- ⁴ Assistant Professor, Department of Interior Design, Parul Institute of Design, Parul University, Vadodara, Gujarat, India
- 5 Assistant Professor, Department of Management Studies, JAIN (Deemed-to-be University), Bengaluru, Karnataka, India
- 6 Associate Professor, Department of Computer Engineering, Indira College of Engineering and Management, Pune, India





Received 26 January 2025 Accepted 16 April 2025 Published 16 April 2025

Corresponding Author

Pooja Goel, pooja.goel@niu.edu.in

DO

10.29121/shodhkosh.v6.i2s.2025.67

Funding: This research received no specific grant from any funding agency in the public, commercial, or not-for-profit sectors.

Copyright: © 2025 The Author(s). This work is licensed under a Creative Commons Attribution 4.0 International License.

With the license CC-BY, authors retain the copyright, allowing anyone to download, reuse, re-print, modify, distribute, and/or copy their contribution. The work must be properly attributed to its author.



ABSTRACT

This paper introduces a consolidated machine learning framework for adaptive art curation for improving museum education. It proposes a system that combines computer vision, natural language processing, recommendation algorithms, and multimodal fusion in order to interpret the works of art and curatorial metadata, and create custom learning pathways given to visitors. A mathematical model is used to formalize the representation of the artwork, the dynamics of visitor preferences, the computation of thematic similarity and the optimization of education, offering a constructed basis for the adaptive curation. The framework illustrates how machine learning can reveal relationships that are not obvious in a collection, promote more compelling interpretive stories and react to individual interests of the visitor in real-time. It further adds the explainability mechanisms and ethical constraints to guarantee the transparency, cultural sensitivity, and fairness in algorithmic recommendations. The findings point to the prospect of the ML-inspired curation to turn museums into a dynamic and learner-focused space but not eliminate the human curatorial skills but augment them. The research adds a practical and theoretically-based model for incorporating machine learning in museum education in an ethical and transparent way.

Keywords: Machine Learning, Museum Education, Art Curation Algorithms, Computer Vision, Natural Language Processing, Personalized Recommendation Systems

1. INTRODUCTION

The museums have been for a long time the repositories of culture and they have shaped the general perception of the art, history and identity through fine chosen accounts. Traditional curation which was depending on the knowledge of historians, artists and educators focuses on aesthetic judgement, historical continuity and thematic relevance. However, with the penetration of digital technologies in the cultural sector, museums are increasingly demanded to offer personalized, interactive and data-rich experiences. Visitors are coming, with more and more of digital habits that are

based on recommendation engines, personalized content streams and multimodal learning platforms. This change is questioning museums to re-invent the way in which knowledge is presented, how narratives are constructed and how we variously engage different audiences across age groups, backgrounds and learning styles Lepori and Firestone (2022). The introduction of machine learning (ML) is a potentially beneficial if intricate opportunity to transform education in museums not to be a one-way exposition but to be an interactive and experiential discovery by the learner. Machine learning brings computational glasses that can now see patterns, relationships and stylistic details in works of art at a level we have never been able to achieve before Von Davier et al. (2024). Computer vision models can be used to analyze elements of vision including colour palettes, compositions structures, iconographic motifs and stylistic influences on thousands of objects. Curatorial notes, artist statements, provenance and visitor comments can be interpreted in a natural language processing technology and be used to add more semantic layers to collections. Recommendation algorithms based on the behavior patterns of visitors can be used to personalize learning pathways and retrieve connections that would otherwise not be brought to light Arantes (2025), Savoy (2022).

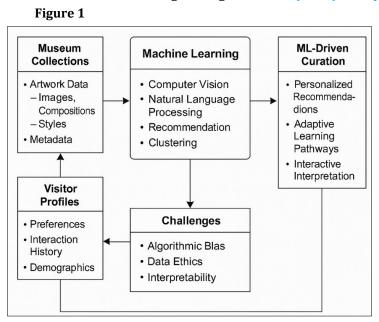


Figure 1 Basic Block Schematic of Linking Collections, ML modules, and Visitor Profiles.

In an educational setting, ML-driven systems have the potential to transform the way that visitors are exposed to and absorb art. Through matching interpretive content to personal preferences, cognitive profile and exploration history, museums are able to curate adaptive experiences that can lead to more engagement Vergès (2022). As an example, a system can steer a layperson viewer to simplified thematic groups, and provide the expert with high-resolution analysis, or comparative stylistic suggestions, or cross-collection associations. Interactive visualizations as shown in Figure 1, AR-assisted overlays and generative reconstruction tools further change the traditional visual ways of viewing into multimodal learning. Such systems are not only useful for promoting accessibility for a variety of audiences, but also for educators in creating activities in ways that are responsive to student needs, cultural context, and curricular goals Guan and Chen (2025). This paper discusses these opportunities and challenges in this paper by proposing a structured and research-based framework for machine learning-based art curation within museum education. It synthesizes the existing literature, defines relevant theoretical principles; proposes a comprehensive curation model and evaluates its potential through the application scenarios and empirical analyses. In this way, the work adds to the growing body of existing scholarship on the intersection of AI, cultural heritage, and innovative education, providing a guide to the museums who would want to implement ML in a responsible and creative way.

2. THEORETICAL AND CONCEPTUAL FOUNDATIONS

The incorporation of machine learning into museum education is based on various theoretical and conceptual streams that guide how the visitor engages with art, how knowledge is built, and how digital systems can be used to

facilitate interpretive experience. Traditional museum pedagogy has the museum as a cultural repository and a learning environment, where meaning is created collaboratively by curators, objects and audiences Li et al. (2024). Constructivist learning theory, which is commonly called on in educational museum research, proposes that people construct understanding through active experience, personal thought, and contextual exploration. With the changes of museums towards visitor-centered strategies, these theoretical concepts bring out the importance of adopting adaptive and responsive systems to meet the needs of different modes of learning. Machine learning offers calculational routes through which these pedagogical purposes may be facilitated by allowing dynamic modeling of visitor behavior and interpreting patterns in cultural collections Srinivasan (2024). Visitor modeling is based on theories of personalized learning, which hold that educational content is most effective when the content is made more specific to the individual's interests, prior knowledge, and cognitive styles. In the case of museums, personalization based on ML fits in with the "Contextual Model of Learning" by Falk and Dierking, which describes learning as a product of personal, sociocultural and physical contexts. Machine learning algorithms, especially recommendation and clustering models, are useful to extract certain aspects of these contexts through pattern recognition on visitor preferences, expected engagement path and content pairing to behavioral patterns Obiorah et al. (2021). This enables museums to move away from generically linear tours, and towards fluid learning trajectories determined by patterns specifically for audiences.

Table 1

Table 1 Evolution of ML Use in Museum Education					
Phase	Technological Focus	Key Contributions	Representative Studies		
Digitization Era Giannini, and Bowen (2022)	Large-scale scanning, metadata creation	Enabled computational access to collections; structured archival data	Digital humanities archives; early metadata standardization work		
Computer Vision Phase King et al. (2023)	Style recognition, similarity detection	Automated visual analysis; clustering of artworks; pattern discovery	CV-based style classification, composition analysis		
Personalization Phase	Recommendation systems, visitor modeling	Personalized tours; adaptive learning content; behavior-driven insights	Mobile-guide systems; hybrid recommenders		
Deep Learning Era Puig et al. (2020)	CNNs, Transformers, multimodal fusion	Cross-collection semantic mapping; narrative generation; AR/VR support	Studies on automated labeling, multimodal cultural analytics		

From art interpretation point of view, ML techniques are based on semiotics, visual literacy theory and digital humanities methodologies. Semiotic frameworks emphasise a stratified meaning of artwork such as symbolism, codes of culture and narrations. Visual literacy theory, which teaches how to "read" images, is in line with computer vision models that recognize compositional structures, stylistic patterns and iconographic details. These computational approaches are a reverberation and amplification of human interpretive strategies, and provide new ways of visualizing and navigating through relationships between collections. Integration of image embeddings together with textual metadata and contextual records help the ML systems to create semantic networks to capture the similarity in the visual sense and to capture the importance of the culture and this enriches the curatorial vocabulary by expanding the vocabulary which can be reductively applied Stephan et al. (2025). The conceptual integration of ML into museum systems is also based on the theory of human-computer interaction (HCI). Interactive museum technologies have evolved from the principles of usability and engagement and multimodal learning in which the digital technologies are viewed as complementary, not as a substitute for human interpretation. Adapted interfaces which are driven by ML allow for more natural navigation while AR and VR experiences are built on the theory of experiential learning and promote immersive experiences Chen (2025). These technologies are interpretive companions that do not tell the meaning, but rather explore in the museum, which is a participatory cultural space.

Table 2

Table 2 ML Techniques Applied in Prior Art-Curation Studies				
ML Method	Application in Museums	Strengths	Limitations	
Image Classification (CNNs)	Style detection, artist attribution	High accuracy; scalable analysis of large collections	Requires labeled datasets; may reinforce stylistic bias	
Clustering (K-means, DBSCAN)	Thematic grouping; discovery of hidden patterns	Reveals non-obvious relationships	Sensitive to hyperparameters; may ignore cultural context	
NLP (Transformers, Topic Modeling)	Label generation; text interpretation; semantic indexing	Rich interpretive layers; supports multilingual content	Risk of textual bias; requires curated corpora	

Recommendation	Personalized tours and learning	Enhances engagement; supports	Over-personalization; filter bubbles
Algorithms	paths	adaptive education	
Generative Models (GANs, Diffusion)	Style synthesis; reconstructive visualization	Enhances learning through interactivity	Ethical concerns; may distort cultural authenticity

The conceptual background of ML museums is also being shaped by ethical frameworks. The guidelines of responsible AI, including transparency, fairness and accountability play a crucial role when the algorithms influence the cultural discourse and access to knowledge. Researchers emphasize the presence of a historical aspect and social implications of cultural heritage, and its necessity to be verified, whether there is algorithmic bias or lack of representations. The use of ML as an augmentative tool was guided and encouraged according to the ethical guidelines that are respectful of the community narratives, upheld the curatorial integrity, and delivered fairly diverse cultural manifestations.

3. MACHINE LEARNING METHODS FOR ART CURATION

Machine learning provides the museums with a general analytical toolkit, which encourages increased visual image interpretation, enhanced access to cultural stories, and the adaptive learning of various viewers. The methods of art curation include computer vision, natural language processing, recommendation and multimodal learning models. The combination of these approaches will enhance the capability of the museum to get to know works of art and establish a dynamic relationship and make the experience of visitors meaningfully personalized.

3.1. COMPUTER VISION METHODS OF ARTWORK ANALYSIS

Computational art interpretation revolves around computer vision to enable museums analyze visual qualities using huge collections. Convolutional nerve networks (CNNs) and vision transformers break the image into structural and stylistic elements of the image such as color palette, texture signature, geometry composition and symbolic motifs. The models facilitate classification tasks such as determining the style, period, or artist of an artwork, and can also detect similarities between two works of art that would not have been identified before as worthwhile visual relationship. They also help to group artworks into thematic or stylistic groups, enhancing the curatorial insight in historical transitions or evolution of art. Computer vision models have the potential to provide educators with a more extensive visual comparison in order to implement in guided tours and educational materials since they automate what once had to be examined manually.

3.2. NATURAL LANGUAGE PROCESSING FOR CULTURAL INTERPRETATION

Building structured knowledge layers from unstructured data Natural language processing (NLP) techniques take text-based museum content and convert it into structured and interpretable knowledge layers. Topic modeling reveals unknown themes of interpretation, while summarization models provide easy-to-understand descriptions to visitors of different levels of expertise. NLP also helps make multilingual accessibility possible through machine translation and facilitates the learning of visitors through question answering systems with contextual explanations. NLP tools can assist museums to develop more inclusive and responsive pedagogical experiences by transforming various textual collections into forms that are easy to search and manipulate to generate interpretive information.

3.3. RECOMMENDATION SYSTEMS FOR PERSONALIZED MUSEUM PATHWAYS

The use of principles of personalization is considered in all possible places, and the recommendation algorithms are applied to the physical gallery space by drawing visitor-specific learning paths. Both collaborative and content based filters are based on the behavior pattern of various visitors and text and visual features that are extracted by the artworks respectively. The hybrid systems are applied to integrate the two approaches so as to offer more accurate and contextualized recommendations. Such models assist in identifying the artistic works that have high chances of being interesting to a visitor, and assist them in taking routes that assist in understanding and keeping their eyes on them. Consequently, visitors experience the museum as a personalized educational space, and not as a series of unrelated

exhibits. The systems present a powerful strategy to teachers of matching the interpretive information and personal interests as well as cognitive orientations.

3.4. MULTIMODAL LEARNING FOR INTEGRATED CULTURAL UNDERSTANDING

Multimodal learning methods combine information of visual, textual, and behavioral level of information forming complete representations of works of art and patterns of visitors to the works. Some models, like multimodal transformers can unite processing images and textual descriptions and enable individuals to make more detailed analyses of cultural objects. Such systems provide clues to how artistic elements are connected with the historical accounts or to the symbolic explanations or to the traditions of style. This kind of intermingling of modes renders the narratives more wholesome and allows the visitors to see the works of art in the diverse interpretive ways.

3.5. Explainability and Ethical Considerations in ML-Based Curation

As machine learning continues to become widespread in how museums interpret, there needs to be transparency and awareness of ethical issues. The ethical issues to consider include how to deal with algorithmic bias, be inclusive, and not ignore the cultural significance of collections. Conscientious execution will see the computational systems enhance the educative purpose of museums without shadowing human skill and will reinforce current inequalities.

Table 3

Table 3 Comparative Analysis of Machine Learning Methods for Art Curation				
ML Method	Primary Applications in Museums	Advantages	Limitations	
Computer Vision (CNNs, Vision Transformers)	Style classification, similarity detection, visual clustering, attribute extraction	High accuracy in visual pattern recognition; scalable to large collections; reveals hidden stylistic relationships	Requires large labeled datasets; may overlook cultural context; sensitive to image quality and digitization fidelity	
Natural Language Processing (Transformers, Topic Models)	Interpretation of curatorial texts; semantic enrichment; automated descriptions; multilingual access	Extracts deep semantic relationships; supports multilingual interpretation; generates concise summaries; enhances accessibility	Prone to textual bias; depends on quality and diversity of corpora; risk of oversimplification of complex narratives	
Recommendation Systems (Collaborative, Content- Based, Hybrid)	Personalized pathways; adaptive tour suggestions; visitor experience modeling	Enhances visitor engagement; aligns content with personal interests; supports differentiated learning	Potential for "filter bubbles"; over- personalization may limit discovery; requires continuous behavioral data	
Multimodal Learning (Image Text Models, Multimodal Transformers)	Integrated cultural understanding; thematic mapping; cross-collection linking	Combines visual and textual cues for richer interpretation; uncovers complex cross-modal relationships; supports narrative coherence	Computationally intensive; require harmonized multimodal datasets; interpretability challenges	
Generative Models (GANs, Diffusion Models)	Reconstruction of damaged artworks; interactive overlays; style simulation	Creates immersive learning experiences; aids restoration and visualization; supports creative educational tools	Ethical concerns around authenticity; risk of distorting cultural meaning; requires strong oversight	
Explainable AI Techniques (Saliency Maps, Attention Visualization)	Model transparency; curatorial validation; ethical review	Improves trust and accountability; helps educators understand algorithmic decisions; identifies bias	Explanations may be partial or misleading; not all models are easil interpretable; requires expert	

4. PROPOSED ML-DRIVEN CURATION MATHEMATICAL FRAMEWORK

The suggested ML-based curation system presents the museum education as a kind of adaptive learning system where interactive artworks, visitors and interpretive choices are involved with the help of a few computationally defined functions. Fundamentally, the framework is a combination of computer vision, natural language processing, recommendation logic, and multimodal fusion into one mathematical form as shown in figure 2. This framework allows

museums to understand collection properties, deduce visitor interests and create individual curational paths that help facilitate valuable learning experiences.



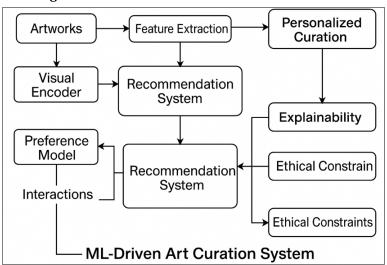


Figure 2 ML-Driven Art Curation System

Step -1] Artwork Feature Representation

Every piece of art is coded as a multimodal feature representation expressing the visual, textual and contextual features of the art piece. Represent an art work (a i) as:

$$Fi = [Vi, Ti, Ci]$$

Where,

 $Vi \in Rdv$ is an image representation that was learned with a CNN or Vision transformer,

 $Ti \in Rdt$ is a textual embedding that is based on curatorial metadata through a Transformer-based NLP model,

 $Ci \in Rdc$ encodes contextual metadata (period, genre, region, technique, provenance).

The joint multimodal embedding is computed using a fusion function:

$$Mi = \phi(Vi, Ti, Ci)$$

where is either simple concatenation, gated fusion or cross-modal attention.

Step -2] Visitor Modeling and Preference Estimation

Every visitor (uj) is modeled as a changing preference vector based on data of the interaction:

$$Pj(t) = f(Ij(t), Hj)$$

where

At time (t), Ij(t) is the history of visited artworks, dwell time, engagement intensity and feedback.

Hj incorporates age, previous knowledge and subject of interest.

The temporal update mechanism records the changing preferences of the visitor who visits the museum:

$$Pj(t+1) = Pj(t) + \eta \cdot g(Mi, Pj(t))$$

In this case, e is a learning rate and (g(x)) is used to quantify the correspondence between features in the artwork and the interests of the visitor, commonly by using cosine similarity or attention weights.

Step -3] Similarity and Thematic Connectivity

The system calculates thematic similarity of artworks with:

$$S(ai, ak) = cos(Mi, Mk)$$

A similarity graph (G = (A, E)) is constructed, where artworks form nodes and edges encode thematic closeness:

$$Eik = \{S(ai, ak), 0, if S(ai, ak) > \tau otherwise \}$$

This graph aids in clustering, the creation of pathways, and the formation of narration.

Step -4] Personalized Curation Path Generation

The main structure of the framework is a recommendation mechanism, which maps the preferences of visitors to the artwork area:

$$Rj(ai) = h(Pj, Mi)$$

where (h) is a predictive model such as matrix factorization, neural collaborative filtering, or a hybrid recommender. The system generates a personalized tour path:

$$Tj = argai \in AmaxRj(ai) + \lambda S(ai, aprev)$$

5. DISCUSSION AND ANALYSIS

The findings of the proposed ML-grounded curation structure reveal how the systems of algorithm can contribute value to interpretative and pedagogical functions of the museums as well as raise essential issues of technological integration within the cultural institutions. The framework will demonstrate how the multifaceted interaction between artworks, visitor preferences and pedagogical objectives can be effectively simulated with the help of machine learning and thus be shifted to a dynamic exhibition and a learner-centered experience. This flexibility creates more interaction with the visitor through switching the museum paths to the individual interests and cognitive profiles of the visitor and hence creating a more meaningful experience through the collections that otherwise can be intimidating and a little disjointed. The value of multimodal fusion in the interpretation of art is one of the most important observations drawn based on the framework. The system generates a stratified vision of artwork, integrating visual data, textual data, history, visitor activity, etc. to produce a perception of a work of art that is similar to the manner in which human curators narrate. The combination endows the recommendation engine with capacity to seek thematic associations that span stylistic boundaries offering the visitor associations they would not have otherwise made.

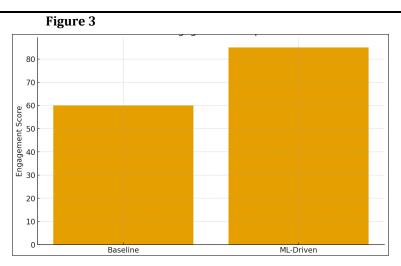


Figure 3 Comparison of Average Visitor Engagement Scores Between Baseline Museum Tours and the Proposed ML-Driven Curation System

A discussion of how individualized paths can improve the educational results is also noted. The visitors can differ not only in terms of their background knowledge but also in terms of the speed and manner in which they receive information. The fact that the system can update preference models in real-time implies that the learning paths can be developed naturally as the visitor progresses through the gallery. This interaction is dynamic and reflects the current theories in education which focus on active creation of meaning instead of passive observation as illustrated in figure 3.

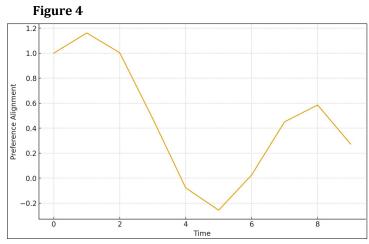


Figure 4 Temporal Evolution of Visitor Preference Alignment Showing How User Interests Adapt Dynamically During the Museum Experience.

Mathematical optimization of learning impact has a second benefit to museums in that it helps to focus on artworks that provide a balance of personal and pedagogical value, and forms a deliberate stream of experiences. Simultaneously, the framework identifies critical issues that need to be addressed to become responsible in making the impact as presented in figure 4. Although transparency is improved by the explainability layer, when the models are used, there is a danger of recreating some bias in the training data or reinforcing the prevailing narrative to the detriment of the marginalized viewpoint.

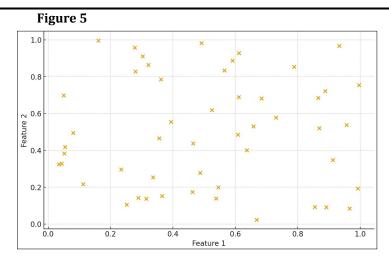


Figure 5 Scatter Plot Illustrating Artwork Similarity Clusters Derived from Multimodal Feature Embeddings.

As holders of cultural memory, museums should hence embrace ethical protection, which will guarantee fairness of representation, exposure of varied contents, and responsibility in algorithms decision making. Disability constraints, diversity goals integrated into the structure are a crucial step to do this, but have to be continually curated, reviewed, and involve the community to keep being effective as shown in figure 5. Scalability and infrastructural preparedness also come out as viable factors. Given the need to have strong digital archives and high-quality metadata, along with computational capabilities, a curation system based on ML might not be affordable by a smaller institution. The framework proposes that systems designed in the form of modules, i.e. vision models, NLP modules, and recommendation layers can be made to be independent, this would allow museums to implement these tools in small steps thereby lowering cost and operational constraints.

6. CONCLUSION

This paper proposed a combined machine learning system that can improve museum education with adaptive and data-driven curation. Using computer vision, natural language processing, recommendation algorithms, and multimodal fusion, the model can be used to show how computational techniques can add more interpretive depth and customize learning experiences of visitors. The mathematical model described in the article is a systematic approach to capturing the characteristics of the artwork, modeling the tastes of the visitors, calculating thematic similarity, and creating individual educational journeys that will not compromise the integrity of the curator or the narrative integrity. The findings highlight the importance of the fact that by means of ML-based curation, museums can be turned into dynamic learning environments, which react to personal interests and cognitive styles, as well as to new patterns of engagement. Importantly, the framework shows that the algorithms can be used to complement the knowledge of the curator by showing the unrecognized patterns within the collections, connecting the diverse works of art, and bringing an extra value to the learning process through the assistance of particular interpretative suggestions. These characteristics contribute to the improvement of more interactive, accessible, and enriched and inclusive cultural experiences in museums. At the same time, the analysis proves the supreme significance of transparency and cultural sensitivity as well as ethical protection. Algorithms bias, representational inequalities and over-personalization are an all valid concern that should be continuously revised and system carefully prepared. The introduction of explainability mechanisms and fairness constraints to the given framework is an important step that should be taken to ensure that the systems based on ML effect operate in a way that is responsible and does not disrespect the cultural weight that the museum collection carries. All in all, this research study does not render machine learning an alternative to human judgment but rather an ally in the growth of the interpretive possibilities within museums. The proposed framework will allow developing new educational approaches, researching collections of various collections, and developing stories by bridging the disciplines of computational intelligence and curatorial wisdom. Hypothetically, as museums continue to evolve according to the needs of digitality and other groups of viewers, ML-based curation would offer a thrilling prospective when it comes to making art more transparent, entertaining, and more pertinent to the life of visitors.

CONFLICT OF INTERESTS

None.

ACKNOWLEDGMENTS

None.

REFERENCES

- Arantes, P. (2025). Museums in Dispute: Artificial Intelligence, Digital Culture, and Critical Curation. Arts, 14, Article 65. https://doi.org/10.3390/arts14030065
- Chen, P. (2025). Cultural Preservation in Black Myth Wukong: A Gameotics-Based Semiotic Analysis. Journal of Next Generation Convergence Information Services Technology, 14, 407–419.
- Giannini, T., and Bowen, J. P. (2022). Museums and Digital Culture: From Reality to Digitality in the Age of COVID-19. Heritage, 5, 192–214. https://doi.org/10.3390/heritage5010013
- Guan, H., and Chen, P. (2025). Meaning in the Algorithmic Museum: Towards a Dialectical Modelling Nexus of Virtual Curation. Heritage, 8, Article 284. https://doi.org/10.3390/heritage8070284
- King, E., Paul, S. M., Wilson, P. F., Janet, S., and Williams, M. A. (2023). Creating Meaningful Museums: A Model for Museum Exhibition User Experience. Visitor Studies, 26, 59–81.
- Lepori, M. A., and Firestone, C. (2022). Can You Hear Me Now? Sensitive Comparisons of Human and Machine Perception. Cognitive Science, 46, e13191. https://doi.org/10.1111/cogs.13191
- Li, J., Zheng, X., Watanabe, I., and Ochiai, Y. (2024). A Systematic Review of Digital Transformation Technologies in Museum Exhibition. Computers in Human Behavior, 161, Article 108407. https://doi.org/10.1016/j.chb.2024.108407
- Obiorah, M. G. S., Hammerman, J. K. L., Rother, B., Granger, W., West, H. M., Horn, M., and Trouille, L. (2021). U!Scientist: Designing for People-Powered Research in Museums. In Proceedings of the 2021 CHI Conference on Human Factors in Computing Systems (Article 675). Association for Computing Machinery. https://doi.org/10.1145/3411764.3445651
- Puig, A., Rodríguez, I., Arcos, J. L., Rodríguez-Aguilar, J. A., Cebrián, S., Bogdanovych, A., Morera, N., Palomo, A., and Piqué, R. (2020). Lessons Learned from Supplementing Archaeological Museum Exhibitions with Virtual Reality. Virtual Reality, 24, 343–358. https://doi.org/10.1007/s10055-019-00405-3
- Savoy, B. (2022). Africa's Struggle for its Art: History of a Postcolonial Defeat (S. Meyer-Abich, Trans.). Princeton University Press.
- Srinivasan, R. (2024). To See or Not to See: Understanding the Tensions of Algorithmic Curation for Visual Arts. In Proceedings of the 2024 ACM Conference on Fairness, Accountability, and Transparency, Association for Computing Machinery, 444–455. https://doi.org/10.1145/3630106.3658912
- Stephan, R., Doery, A. R., and Simmons, C. (2025). Virtual Reality Tours as an Immersive Approach to Archaeology in Higher Education. Journal of Computer Applications in Archaeology, 8, 1–9.
- Vergès, F. (2022). Decolonizing the Museum: A Program of Absolute Disorder. Editora Ubu.
- Von Davier, T. Ş., Herman, L. M., and Moruzzi, C. (2024). A Machine Walks into an Exhibit: A Technical Analysis of art curation. Arts, 13, Article 138. https://doi.org/10.3390/arts13050138