OPEN ACCESS

Int. Jr. of Contemp. Res. in Multi. *PEER-REVIEWED JOURNAL* *Volume 5 Issue 2 [Mar-Apr] Year 2026*

Research Article

Emotional Intelligence in Artificial Intelligence: Can AI Truly Evoke Human Emotions through Design?

Himesh Baboolall [1*], Manish Arora [2]

[1] ICCR International Research Scholar (Mauritius), Department of Applied Arts, Faculty of Visual Arts, Banaras Hindu University, Varanasi, Uttar Pradesh, India

[2] Professor and Head, Department of Applied Arts, Faculty of Visual Arts, Banaras Hindu University, Varanasi, Uttar Pradesh, India

Corresponding Author: *Himesh Baboolall

DOI: https://doi.org/10.5281/zenodo.19825212

Abstract

The swift adoption of artificial intelligence in visual communication has also revolutionised how images are perceived, created, and understood. This paper critically questions whether artificial intelligence can truly elicit human emotions through design, or whether it is merely a simulation of affective responses driven by computational patterns. Based on the traditional theories of emotional design and affective computing, especially the contributions of Donald Norman and Rosalind Picard, the paper discusses the connection between human cognition, emotional involvement, and machine-generated visuals. Norman's framework of visceral, behavioural, and reflective design is used to comprehend how visual elements evoke emotional reactions, while Picard's concept of affective computing helps explain how machines detect and imitate emotional responses. It is a qualitative and interpretative study that focuses on the analysis of selected examples of artificial intelligence-created visual products in digital media and advertising settings. It also engages with philosophical accounts of emotion, such as constructivist perspectives that challenge the universality and measurability of emotional experience. The results indicate that although artificial intelligence can create visually stimulating content that influences user perception and interaction, it is still unable to generate real emotional depth due to its lack of lived experience and cultural awareness. Emotional resonance in design, therefore, remains reliant on human intention, contextual understanding, and cultural sensitivity. This work contributes to the ongoing discourse on human–machine creativity by positioning artificial intelligence as a supplementary, rather than substitutive, element of the emotional intelligence of the designer in contemporary visual communication practices.

Manuscript Information

- **ISSN No:** 2583-7397
- **Received:** 26-03-2026
- **Accepted:** 23-04-2026
- **Published:** 27-04-2026
- **IJCRM:**5(2); 2026: 851-855

- **Plagiarism Checked:** Yes
- **Peer Review Process:** Yes

How to Cite this Article

Baboolall H, Arora M. Emotional Intelligence in Artificial Intelligence: Can AI Truly Evoke Human Emotions through Design? Int J Contemp Res Multidiscip. 2026;5(2):851-855.

Access this Article Online

www.multiarticlesjournal.com

KEYWORDS: Affective Computing, Artificial Intelligence, Emotional Design, Human–Computer Interaction, Visual Communication.

1. INTRODUCTION

The advent of artificial intelligence in the visual communication field has radically changed the modern-day design practice that has become the central issue of creativity, authorship and emotional appeal. With more and more machine learning systems becoming involved in creating images, ads, and other digital interfaces, the ability of a given system to cause human emotions has emerged as a primary issue of research in design studies. Whereas conventional graphic design depends on the power of the human intuition, cultural insight and emotional response, artificial intelligence is based on recognizing patterns, modeling results based on data and predicting the outcome based on algorithm.

Emotional engagement in design has been actively discussed in the design theory and human-computer interaction. Norman suggested that the response to design is multidimensional and it has visceral, behavioral, and reflective levels of response to design [1]. In the same vein, Picard coined the notion of affective computing which focuses on machines being able to understand and imitate human emotions [2]. The frameworks identify these theoretical frameworks as a basis of explaining the ways in which artificial intelligence and emotional design intersect with each other.

Although these innovations have been made, the question, however, is whether artificial intelligence can truly be capable of eliciting emotions or just imitating them along the lines of the learned patterns. This paper tackles the problem by explaining how artificial intelligence can be used in visual communication and whether it can impact emotional perception or not. The study has a qualitative methodology, with the case studies and theoretical analysis being used to determine the connection between machine-generated visuals and the emotional reaction of human beings.

2. LITERATURE REVIEW

Emotional design has developed a lot with the incorporation of the artificial intelligence technologies. Earlier designs by Norman had highlighted that design is functional and emotional too and how the user perceives and interacts with objects [1]. This knowledge was further enhanced by Picard in his work on the area of affective computing that presented computational models that were able to detect and react to human emotions [2].

The use of artificial intelligence in visual communication, especially advertising and user interface design is a recent topic of research. Human-computer interaction research indicates that emotionally adaptive systems have the potential to increase user engagement by personalizing visual displays to the user [3]. Nonetheless, researchers have equally questioned the validity of emotions produced by machines with the claim that artificial intelligence does not offer the subjective experience to be considered as a genuine emotional expression [4].

The philosophical views on emotion also make it a complicated debate. According to constructivist theories, emotions are not universal but are influenced by factors of culture and contexts [5]. This puts the claim of artificial intelligence to interpret and replicate emotional responses of a wide range of audiences correctly in doubt. Also, other ethical factors like prejudice, manipulation, and privacy of data have been noted to be the most important in the implementation of emotional artificial intelligence systems [6].

3. RESEARCH METHODOLOGY

In this research, the use of a qualitative and interpretative research methodology is used to explore how artificial intelligence contributes to the ability of visual communication to arouse human emotions. The study is founded on secondary research, such as academic articles, books, and case studies on emotional design and artificial intelligence.

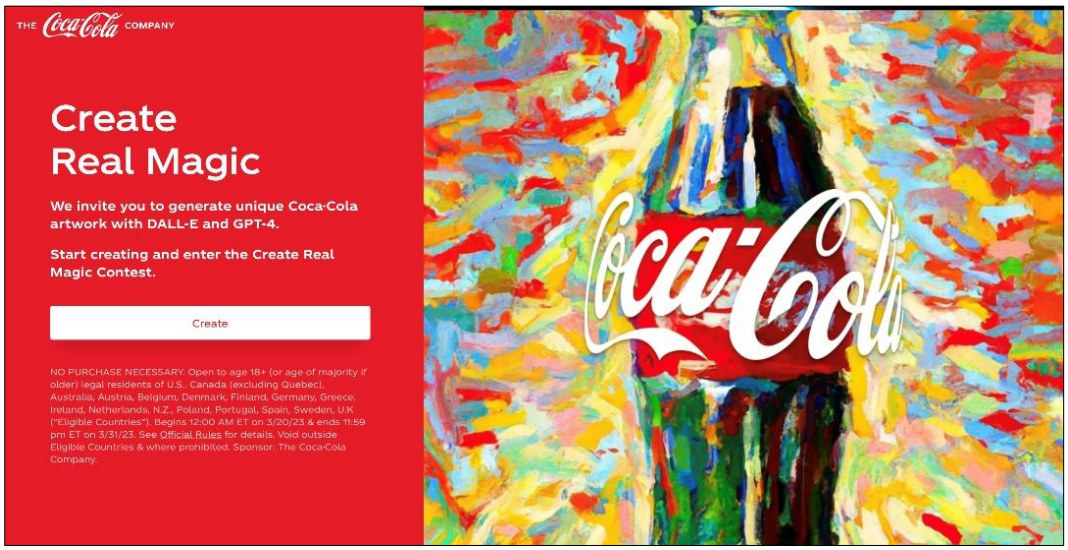
To analyze particular examples of artificial intelligence-generated visual content in advertisement, digital media, and user interface design, a case study approach was used. The choice of cases considered was on the basis of the visual appeal, emotional appeal, user engagement, and cultural relevancy. The discussion was aimed at finding trends in the way artificial intelligence systems are used to create and modify visual content to produce emotions.

The study also involves the theoretical analysis, utilizing the existing frameworks in emotional design and affective computing. This method will allow taking a critical look at the possibilities and shortcomings of artificial intelligence to mimic human emotional intelligence. The research approach is not based on quantitative data and surveys and, therefore, there is conceptual and analytical emphasis.

4. CASE STUDIES

4.1 Case Study 1: Advertising Campaigns Generated by AI

A remarkable campaign of artificial intelligence in advertising is the one created by Coca-Cola and OpenAI titled Create Real Magic (2023). Users were invited to this campaign to create artwork with the help of artificial intelligence models trained on the iconic brand features of the Coca-Cola brand, such as its logo, typography, and red color palette. The participants developed customized images which were ultimately edited and displayed online and in billboards.



Source: DesignRush (2023)

Fig 1: Coca-Cola Partners with OpenAI for 'Create Real Magic' Campaign.

The campaign showed the power of artificial intelligence to combine brand identity with user-created creativity to create content that is emotionally engaging at scale. The designs created by utilizing the previously known visual elements like memories of nostalgia, themes of celebration, and symbols that are culturally mindful, instilled a sense of happiness, a sense of belonging and a sense of brand loyalty. Emotional engagement was also increased by the interactive character of the campaign as it enabled the users to become active participants of the creative process.

Nevertheless, although the images managed to raise awareness and trigger a direct emotional appeal, it was the existing brand associations that were relied upon to create a profound emotional appeal, and not the intelligence of the system itself. The case brings out the fact that artificial intelligence can enhance emotional communication in advertisement, and yet, it is based on human cultural memory and symbolic meaning to enable greater emotional resonance.

4.2 Case Study 2: Emotion-Aware User Interfaces

An increasing number of digital platforms are being equipped with emotion-sensitive interfaces as a way of improving user interactions by way of personalized visual experiences. One of the most notable is Spotify that employs artificial intelligence to adjust its interface according to the user behavior, listening habits, and context information (time, activity, etc.). Such functionalities as mood-based playlists, dynamic album cover, and personalized recommendations are geared towards matching with the emotional mood of the user and their preferences.

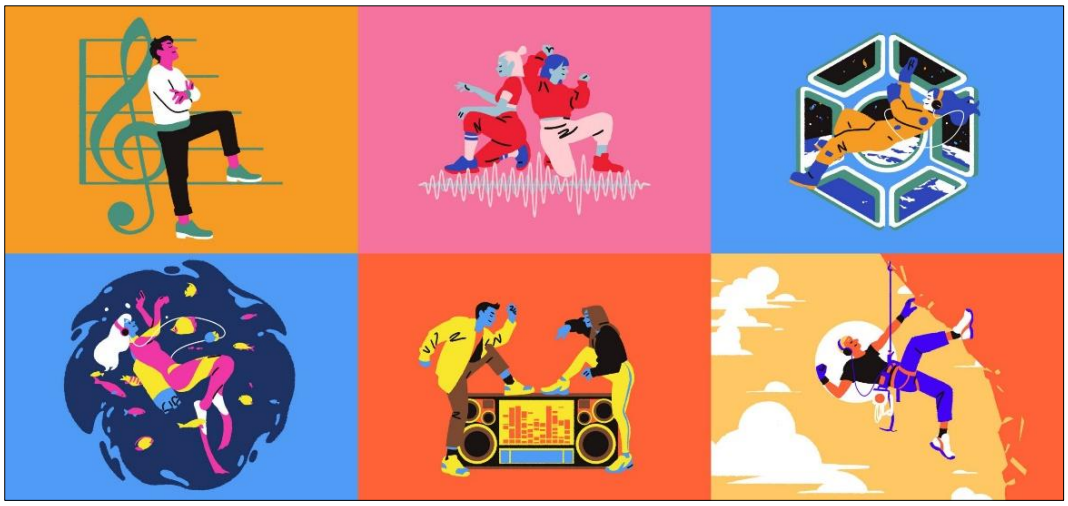


Fig 2: Spotify's Embodiment of Emotional Design. Source: Raw Studio

This dynamic model shows how AI can affect feelings of engagement by generating a feeling of individuality and relatability. The understanding of emotion is, however, still inference-based since the system is based on behavioral cues and not actual emotional cognitions, which is what makes the

difference between simulated and genuine emotional intelligence.

4.3 Case Study 3: Generative Art and Visual Storytelling

The capabilities of visual storytelling have been greatly increased by generative artificial intelligence tools that allow transforming textual prompts into in-depth and imaginative visuals. One case in point is Midjourney, where designers and creators can create elaborate visual compositions by typing in a description of the image they want. The system decodes semantic hints, stylistic allusions and contextual information to create images which may be of high aesthetic value and story richness.

Source: Geeky Curiosity | Substack

Fig 3: Midjourney takes us into the new world of AI video generation.

This functionality demonstrates how AI can be used to build aesthetically appealing stories that could appeal to the audience on an imaginary and emotional scale. But the narration is algorithmically obtained, since the images generated are founded on previously acquired patterns as opposed to personal experiential knowledge, which supports the difference between computational creativity and personal-creativity of expressing emotion.

5. RESULTS AND FINDINGS

The study showed that artificial intelligence can be used to generate aesthetically pleasing designs that can impact user perception and interaction. Machine-generated images proved to be effective in advertising as they were able to attract attention and evoked immediate emotional reactions by using color, composition and imagery.

Yet the results also pointed to the fact that emotional effect of such designs can be frequently limited to the superficiality. Although artificial intelligence is able to reproduce visual patterns that are linked to a certain emotion, it is not able to provide the background context of understanding in order to make meaningful emotional associations. Lack of lived experience and cultural understanding limits artificial intelligence from creating realistic emotional narratives.

In addition, the research concluded that the reaction of people to visuals produced by artificial intelligence differed greatly depending on cultural and contextual attributes. Algorithms could not effectively generalise across different circumstances as designs that were effective in a given context may not produce the same emotional reaction in a different context.

6. DISCUSSION

The results of the study concur with the body of literature available in emotional design and affective computing that artificial intelligence can recreate but not completely reproduce human emotional intelligence. The framework of emotional design by Norman helps to stress the need to focus on human-oriented solutions, which are also vital in developing significant visual experiences [1]. Equally, the work of Picard points out the possibility of machines to identify emotions, but does not mean that machines will understand emotions [2].

The constraints offered in this research also lend credence to constructivist theories of emotion, which assert the importance of culture and setting in determining emotional reactions [5]. Artificial intelligence systems, based on generalised datasets, might fail to put into consideration these nuances, and thus, misinterpretations and biases can occur.

The paper also brings up crucial ethical issues, especially concerning the application of emotional artificial intelligence in advertising and digital media. The fact that such systems can manipulate user behaviour prompts questions of manipulation and commodification of emotion.

7. CONCLUSION

The paper has discussed the ability of artificial intelligence in eliciting human emotions by visual communication with an emphasis on its theoretical background, practical implementation, and its limitations. The results showed that although artificial intelligence is effective in simulating emotional cues by using visual stimuli in the form of color, composition and imagery, it is limited to producing real experiences of emotion. Artificial intelligence lacks lived experience, cultural awareness, and subjective knowledge, as these concepts are fundamental to developing meaningful emotional relationships in the case of human designers.

The study shows the value of keeping a human-oriented approach to the design practice in which artificial intelligence is used as an assistive tool, not as an alternative to human creativity. The application of emotional design strategies and artificial intelligence technologies is associated with new possibilities of innovation, but it should be considered with regard to ethical and cultural aspects.

Future studies on the topic ought to look at interdisciplinary methods that can integrate design theory, cognitive science, and cultural studies in developing an improved understanding of the role of artificial intelligence in emotional communication. Moreover, the cultural adaptable artificial intelligence systems might be improved with additional research that would improve the efficiency of machine-generated visual art and make it more inclusive.

8. ACKNOWLEDGMENTS

The author expresses sincere gratitude to his family in Mauritius for their continuous support and encouragement. The research supervisor and co-author are given special credit and acknowledged due to their priceless guidance, mentorship and academic input into the formulation of this study.

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About the Corresponding Author

Himesh Baboolall is an International Research Scholar in the Department of Applied Arts at the Faculty of Visual Arts, Banaras Hindu University, Varanasi, Uttar Pradesh, India. His work explores creative expression, visual culture, and interdisciplinary practices, contributing to academic research while engaging with contemporary artistic discourses and innovative design perspectives.