

MODELING OF AESTHETIC PERCEPTION AND EMOTIONS THROUGH ARTIFICIAL INTELLIGENCE

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Abstract: *This article examines the modeling of aesthetic perception and emotional responses through artificial intelligence technologies. The study explores how AI systems simulate human aesthetic judgment, emotional engagement, and artistic creativity. Special attention is given to machine learning algorithms and neural networks. The paper argues that AI not only reproduces aesthetic forms but also reshapes perception in the digital age.*

Keywords: *aesthetics, artificial intelligence, aesthetic perception, emotions, neural networks, machine learning, digital art, affective computing, algorithmic creativity, AI art, cognitive modeling, visual culture*

INTRODUCTION

Artificial intelligence (AI) is increasingly influencing aesthetic perception and emotional experience. This study explores how AI models human aesthetic judgment and emotional response through machine learning and neural networks. Modern systems are capable of generating artistic outputs that simulate human creativity and emotional depth.

Recent studies show that AI-generated art challenges traditional concepts of authorship and creativity (McCormack et al., 2019). Furthermore, neural networks such as GANs demonstrate the ability to produce aesthetically valuable outputs (Elgammal et al., 2017).

Aesthetic Perception and AI

Aesthetic perception has traditionally been understood as a subjective human experience. However, AI transforms this process into data-driven analysis. By training on large datasets, AI systems learn patterns associated with beauty and artistic value.

Emotional Modeling

Emotions play a crucial role in aesthetic experience. AI uses affective computing to simulate emotional responses through facial recognition, voice analysis, and behavioral data. Although AI does not possess real emotions, it effectively imitates emotional patterns.

AI in Art

Artificial intelligence has become an active creator in the art world. Technologies such as GANs generate original artworks that challenge traditional ideas of authorship. This leads to a redefinition of creativity in the digital age.

Digital Aesthetics

Digital platforms and virtual environments reshape aesthetic experience. AI personalizes content and enhances emotional engagement, making aesthetic perception more interactive and algorithm-driven.

Conclusion

Artificial intelligence significantly transforms aesthetic perception and emotional modeling. While AI cannot truly feel emotions, it can simulate and influence human responses. This creates new opportunities for creativity but also raises ethical and philosophical concerns.

Future research should focus on balancing technological innovation with human-centered aesthetic values.

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