Research Topic

The research topic I have chosen is: "The impact of artificial intelligence on artistic creation".

First search

I used the following search strategy for my literature search, using the Google Scholar search engine.

Start with broad keywords: "artificial intelligence", "artistic creation"

Experimenting with niche keywords such as "Artificial Intelligence and Artistic Creativity", "The Impact of Artificial Intelligence on Artistic Creativity", and "Machine learning and artistic creativity", etc.

Try using Boolean operators (AND, OR) and wildcards (*) to broaden and narrow your search

Use successful search terms and results:

Search term	Result
Artificial Intelligence	5,430,000
Artistic creation	3,520,000
Artificial Intelligence and Artistic creation	429,000
Machine Learning and Artistic Creation	681,000
The Impact of Artificial Intelligence on Artistic Creativity	141,000

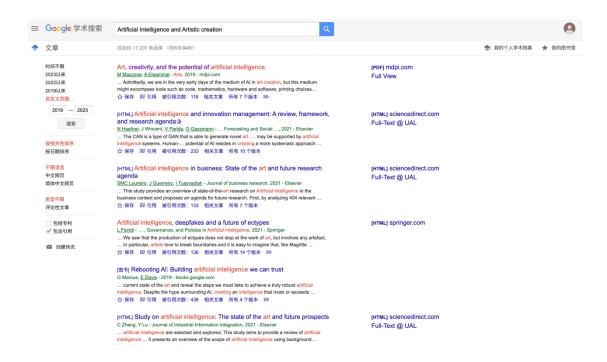
I found that the search results were more specific and precise when using Boolean operators and wildcards (*).

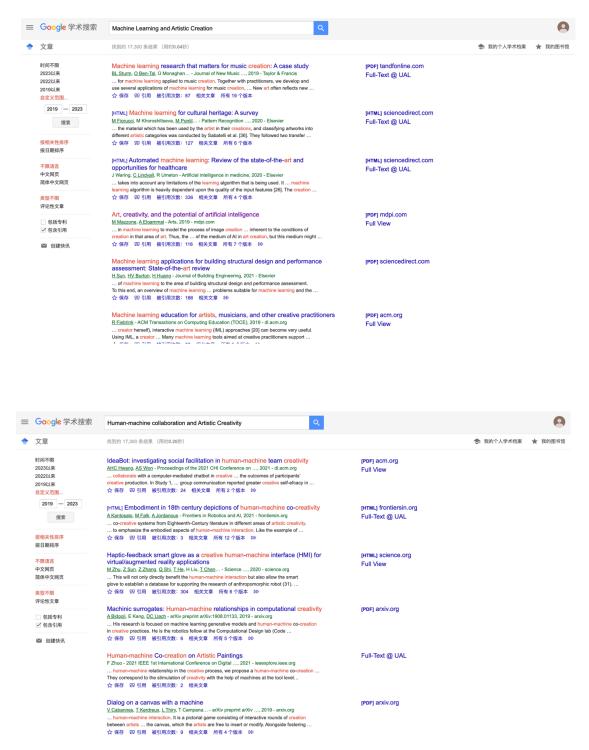
Using unsuccessful search terms and results:

Search term	Result
The Impact of Human-machine collaborationon Artistic Creativity	1,370

The results for these search terms are too broad or too narrow to provide specific research information.

Through my attempts, I found that using broad keywords could lead to overly large search results, while using overly specific keywords could lead to overly narrow search results. During my search, I found some literature that was too old despite the keyword match, so I tried to narrow down the time.





After this step, I found the article I was looking for and I began a quick skim from the title to the content summary, from which I found several pieces that were useful to me.

Result

Mazzone, M. and Elgammal, A. (2019). Art, Creativity, and the Potential of Artificial Intelligence. arts, 8(1), p. 26.

The article focuses on the impact of artificial intelligence (AI) on artistic creativity and the potential applications of AI in the arts. The article is divided into two main sections: the first discusses how AI technologies are influencing the creative process of artists, including creative approaches to generating images, music and text using AI, and how AI can help artists in their self-expression and exploration. The second part discusses the use of AI in art education and museum exhibitions, particularly in the areas of digitisation and virtual reality.

Hong, J.-W. and Curran, N.M. (2019). Artificial Intelligence, Artists, and Art.

ACM Transactions on Multimedia Computing, Communications, and

Applications, 15(2s), pp.1- 16.

This paper focuses on how artists can use artificial intelligence technologies to create art. The paper begins by reviewing the relationship between art and artificial intelligence and presents some examples of the use of AI technology for artistic creation. The thesis then examines some of the challenges of using AI technology to create art, including technical challenges, issues of originality of the work, and audience acceptance of these works. Finally, the paper suggests some future directions for research to better explore the relationship between AI and art.

Kroos, C. (2016). The Art in the Machine. Robots and Art, pp. 19-25.

Cypher's article discusses the role of non-human entities in the process of practice-based visual arts research. The author argues that non-human subjects such as tools, materials and technologies play an active role in the creative process and collaboration, rather than just being passive objects.