

**Abstract**

## **A Study on Copyrightability of Music Composed by Artificial Intelligence**

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Today's Artificial intelligence (AI) technology is expanding rapidly into the arts and creative fields that have evolved to be beyond the industry and confident of being a human-specific domain. If the artificial intelligence similar to human beings(human level machine intelligence), which is different from the present one, is developed through future technological development, it may encroach on human creative area with high level of creative ability and rapid mass production. As the ability of artificial intelligence improves, there arises a question about whether it is possible to apply the copyright law to artificial intelligence to promote human creative activities and protect their rights. In this article, we will look at music creation only.

I examine the historical background that music is protected by copyright law and the characteristics of current representative artificial intelligence composition programs (Iamus, Jukedeck, Flow machines, etc.), and analyze the characteristics of the musical creations by dividing them into creative elements and non-creative elements. Based on this, (IV), I examine issues such as recognition of copyrightability of musical creations using artificial intelligence and copyright grant with the purpose of copyright law. In the case of strong artificial intelligence, it is also necessary to discuss the issue of rights attribution of musical works composed by artificial intelligence. The protection of musical creations composed by artificial intelligence should be considered together with the purpose of copyright law and policy judgment.

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## Keywords

Artificial Intelligence, AI Creative Work, AI Music Composition, Jukedeck, Magenta Project, Algorithm, Music work, Copyrightability, Originality, Authorship

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