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## **Towards Automated Classification of Paintings**

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### **Abstract**

*This paper presents a comparison of different classification methodologies for painting genre classification. 2-level classification was performed for this classification task. The paper reviews the performance of different generative models while 2<sup>nd</sup> level classification is performed on the basis of high-level features vs low-level and intermediate features present in the painting.*

### **1. Introduction**

In the last decade there have been significant advances in developing computer vision algorithms for different object recognition tasks including: instance recognition, object recognition, pose estimation, etc. From an image we not only recognize the scene category, we can also infer historical aspects. For example, in fine-art painting, an expert or even a layman can infer information about the style (e.g. Baroque vs. Impressionism) and the artist who painted it. This is an application of human perception for learning computer vision.