

Date of publication xxxx 00, 0000, date of current version xxxx 00, 0000. Digital Object Identifier 10.1109/ACCESS.2024.Doi Number

# A Comparative Study of Early and Late Painting Styles in Zhang Daqian's Lotus Works

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This work was supported by the National Natural Science Foundation of China (No. 62371094).

**ABSTRACT** Zhang Daqian (1899-1983) is an extremely influential painter in the history of modern Chinese painting. Among his works, the lotus paintings hold a special place in Zhang Daqian's artistic career. This paper conducts a comparative study of Zhang Daqian's early and late lotus paintings through quantitative analysis on three levels. Firstly, from the perspective of ink color, a quantitative comparative analysis concludes that the early works are characterized by high brightness, low contrast, and negative skewness. This indicates that the paintings possess a soft, delicate, and bright visual effect, giving a fresh and tranquil feeling. In contrast, the late works are characterized by low brightness, high contrast, and zero skewness, presenting a strong contrast, vivid colors, and visual balance. The color distribution in the late paintings is relatively balanced, forming a stark contrast to the soft style of the early works. Secondly, from the level of visual complexity, it is concluded that the early works have unique texture characteristics, while the late works are more uniform, consistent, and regular in these aspects, with stronger color contrast and dynamics, and more boldness. Finally, by extracting specific elements of "flowers, stems, leaves" for texture strokes and ink color gradation analysis, and applying data quantification-based feature extraction and capturing important data information in MATLAB for data comparison, combined with professional analysis and research on related indicators of the artwork, the comparative results of quantitative analysis of Zhang Daqian's early and late lotus paintings are given, summarizing the quantitative analysis results in descriptive language. The experimental results show that the algorithm has good performance, providing a solid basis for the quantitative analysis and comparative study of Zhang Daqian's lotus paintings from early and late periods, and objectively presenting the style changes from "following the ancient" to "transforming the ancient" in Zhang Daqian's lotus paintings through data.

**INDEX TERMS** Zhang Daqian; Lotus Works; Ink layers; Visual complexity; Specific elements

## I. INTRODUCTION

The tradition of Chinese painting, with its origins in the vibrant era of ancient colorful pottery, has evolved over millennia into a distinct and profound art form. This evolution has been marked by the contributions of legendary painters whose works have become cornerstones of cultural heritage. Among these, Gu Kaizhi of the Eastern Jin Dynasty, celebrated for his "Picture Of Lady Officials"; Wu Daozi of the Tang Dynasty, revered as the "Sage of Painting" for his "Born Of Gautama Buddha"; and Zhou Fang of the Southern Song Dynasty, known for his exquisite depictions of court ladies, stand out. The Yuan Dynasty's Huang Gongwang forever altered the landscape of Chinese painting with "Dwelling in the Fuchun Mountains". The Ming and Qing Dynasties saw the rise of artists like Tang Yin, with his

"Contemplating on a Donkey Ride Home", and Zheng Banqiao and Ren Bonian, known for "Bamboo and Rocks" and "Enjoying Coolness under Banana Trees", respectively. In the modern era, Qi Baishi, Zhang Daqian, Li Keran, Xu Beihong, and Li Kuchan have continued this legacy with iconic works such as Qi Baishi's "Ink Shrimp", Li Keran's "The Shepherd Boy", Xu Beihong's "Group of Horses", and Li Kuchan's "Flock of Doves" and "Lotus Flowers".

Among this illustrious group, Zhang Daqian emerges as a pivotal figure in the narrative of modern Chinese art. His body of work is celebrated worldwide for its innovative approach, diverse styles, and vibrant use of color, all of which resonate deeply with cultural traditions[1-7]. Zhang's later works, in particular, are noted for their seamless integration of the essence of traditional Chinese

# Styles Of Painting A Comparative Study

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*Styles in Painting* Paul Zucker,1981-06      *Styles in Painting* Vsesoiuznaia konferentsiia po biokhiiii nervnoi sistemy (2d : 1957 : Kiev),1963      *Styles in Painting; a Comparative Study; ND1480* P. Zucker,1963      Towards Automated Classification of Fine-art Painting Style Ravneet Singh Arora,2012 This thesis presents a comparative study of different classification methodologies for the task of fine art genre classification The problem of painting classification involves classifying new unknown paintings among different art genres Two level comparative study is performed for this classification problem The first level reviews the performance of discriminative vs generative models while the second level touches the features aspect of the paintings and compares Semantic level features vs low level and intermediate level features present in the painting Three models are studied and compared namely 1 A Discriminative model using a Bag of Words BoW approach 2 A Generative model using BoW 3 Discriminative model using Semantic level features Various experiments and techniques like Bag of Words model Topic models and Classeme features are employed to get insights into potential of these automatic classification techniques for painting styles      *A Human Evaluation Studies Using Conjoint Analysis for Comparative Study of Neural Style Transfer* Ainal Irham,2026-03-13 Apakah Anda peneliti praktisi visi komputer atau antusias di bidang Neural Style Transfer NST Pengembangan non photorealistic rendering melalui teknologi Neural Style Transfer telah berkembang pesat Namun tantangan utama yang sering dihadapi peneliti adalah Bagaimana cara mengevaluasi hasil karya model secara objektif dan mendalam dari perspektif manusia Buku ini menyajikan pendekatan inovatif dalam evaluasi model NST dengan menggunakan Conjoint Analysis Seringkali studi evaluasi manusia saat ini hanya menyajikan data yang dangkal Melalui penelitian ini kami mendobrak batasan tersebut dengan memberikan analisis mendalam yang lebih sistematis terukur dan berbasis data responden nyata Apa yang akan Anda temukan dalam buku ini Metodologi Baru Penerapan Conjoint Analysis sebagai alat untuk memahami preferensi manusia terhadap hasil Neural Style Transfer Studi Kasus Nyata Analisis data berdasarkan survei terhadap responden mengenai berbagai metode transfer gaya Evaluasi Komprehensif Mengapa metode tertentu RAST unggul berdasarkan kombinasi atribut multidimensi seperti gender usia dan preferensi pengguna Insight Akademik Kontribusi nyata bagi pengembangan evaluasi kualitatif dan kuantitatif dalam dunia visi komputer Buku ini sangat cocok bagi Anda yang sedang menyusun riset serupa atau ingin memperdalam pemahaman tentang bagaimana variabel manusia memengaruhi persepsi terhadap hasil Artificial Intelligence Temukan bagaimana kombinasi atribut yang tepat dapat menentukan efektivitas sebuah model dalam menghasilkan karya visual yang artistik Ambil salinan Anda sekarang dan tingkatkan standar evaluasi riset Neural Style Transfer Anda      **The 2021 International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy** John Macintyre,Jinghua Zhao,Xiaomeng Ma,2021-10-27 This book presents the proceedings of the 2020 2nd International Conference on Machine Learning and Big Data Analytics for IoT Security and Privacy SPIoT 2021 online conference on 30

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